Amiangshu S. Bosu

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Phone: 313 -577 -0731 (Office), 205-886-7323 (Cell)

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Research Interests

Empirical Software Engineering, Software Security, Mining Software Repositories, Social Network Analysis, Natural Language Processing, Sentiment Analysis, Online toxicity, Gender discrimination, Diversity equity and inclusion, Peer Code Review, Machine Learning, Human Factors in Software Engineering, Program Analysis, Malware detection, Android Security, Open Source Software.

Education   *Ph.D., Computer Science*, June 2015
University of Alabama
Tuscaloosa, AL
    Thesis: *Contemporary Peer Code Review Practices and Associated Benefits*
    Advisor: Dr. Jeffrey C. Carver

M.S., Computer Science, May 2012
University of Alabama
Tuscaloosa, AL

B.S., Computer Science and Engineering, August 2006
Bangladesh University of Engineering and Technology (BUET)
Dhaka, Bangladesh

Signature: _____

Amiangshu S. Bosu, Ph.D.
Associate Professor, Computer Science

Employment

08/2025–Current   Associate Professor (Tenured)
Department of Computer Science
Wayne State University
Detroit, MI.

08/2018–07-2025   Assistant Professor (Tenure-track)
Department of Computer Science
Wayne State University
Detroit, MI.

01/2016–08/2018   Assistant Professor (Tenure-track)
Department of Computer Science
Southern Illinois University Carbondale
Carbondale, IL.

8/2015–12/2015   Postdoctoral Associate
Advisor: Danfeng (Daphne) Yao, and Barbara Ryder
Department of Computer Science
Virginia Tech.
Blacksburg, VA

8/2010–7/2015   Research Assistant
Advisor: Jeffrey Carver
Software Engineering Research Group
Department of Computer Science
University of Alabama
Tuscaloosa, AL

6/2014–8/2014   Research Intern
Mentors: Christian Bird, and Michaela Greiler
Empirical Software Engineering Group (ESE)
Microsoft Research
Redmond, WA

2/2009–7/2010   Senior Software Developer
Vantage Communications
New Hope, PA
www.vantageip.com

8/2006–2/2009   Senior Software Engineer
ReliSource Technologies
Dhaka, Bangladesh
www.relisource.com

Research Grant / Contracts

1. *CAREER: Transforming Peer Code Review Environments for Code Learning and High-Quality Feedback*, NSF Award # 2340389, Amount: $596,759, PI. Amiangshu Bosu. Duration: May 2024 -April 2029.

2. *Collaborative Research: PPoSS: Planning: Scaling Autonomous Vehicle Systems at the Edge: from On-Board Processing to Cloud Infrastructure.* NSF Award # 2118202, Amount: $163,796, Role: Sr. Personnel. Duration: July 2021 – June 2023.

3. *CRII: SHF: Improving the Retention of Newcomers in FLOSS Projects With Useful and Timely Code Reviews*, NSF Award # 1850475, Amount: $174,967, PI. Amiangshu Bosu, February 2019 – January 2022.

4. *DARPA: Detection of Malware Collusion*, Virginia Tech., $25,000.00. PI. Amiangshu Bosu. Subcontract for the DARPA funded project to identify malware at Virginia Tech.

Awards and Honors

– Research Excellence Award, 2025, James and Patricia Anderson College of Engineering.

– NSF CAREER award, 2024

– NSF CRII award, 2019

– Senior Member, IEEE, Class of 2025

– Senior Member, ACM, Class of 2023

– 2015 Outstanding Graduate Researcher, Department of Computer Science, University of Alabama.

– 2014 Outstanding Graduate Researcher, Department of Computer Science, University of Alabama.

– ACM SIGSOFT CAPS Travel Grant for ICSE 2014.

– ACM Student Research Competition Finalist, ICSE 2014.

– NSF Student Travel Grant for ESEM 2013.

– 1st Place Doctoral division, ACM Mid-Southeast Conference, November 2011.

– National Merit Scholarship, Dhaka Education Board, Bangladesh, 1998-2006.

– Junior Merit Scholarship, Dhaka Education Board, Bangladesh, 1995-1998.

Publications

Journal Papers

[J1] Asif Kamal Turzo, Sayma Sultana, and Amiangshu Bosu. From First Patch to Long-Term Contributor: Evaluating Onboarding Recommendations for OSS Newcomers, *IEEE Transactions in Software Engineering*, Vol. 51, Issue 4, 2025.

[J2] Sayma Sultana, Jaydeb Saker, Farzana Israt, Rajshakhar Paul, and Amiangshu Bosu. Automated Identification of Sexual Orientation and Gender Identity Discriminatory Texts from Issue Comments, *ACM Transactions on Software Engineering Methodology (accepted)*, Vol. 34, 2025.

[J3] Asif Kamal Turzo and Amiangshu Bosu. What Makes a Code Review Useful to OpenDev Developers? An Empirical Investigation *Empirical Software Engineering*, 29(6), 2024.

[J4] Sayma Sultana, Asif Kamal Turzo and Amiangshu Bosu. Code Reviews in Open Source Projects : How Do Gender Biases Affect Participation and Outcomes? *Empirical Software Engineering*, 28(4), 2023.

[J5] Jaydeb Sarker, Asif Kamal Turzo, Ming Dong, and Amiangshu Bosu. Automated identification of toxic code reviews using toxicr. *ACM Transactions on Software Engineering Methodology*, 32(5), 2023.

[J6] Masum Hasan, Anindya Iqbal, Mohammad Rafid Ul Islam, AJM Rahman, and Amiangshu Bosu. Using a balanced scorecard to identify opportunities to improve code review effectiveness: an industrial experience report. *Empirical Software Engineering*, 26(6):1–34, 2021.

[J7] Amiangshu Bosu, Anindya Iqbal, Rifat Shahriyar, and Partha Chakroborty. Understanding the motivations, challenges and needs of blockchain software developers: A survey. *Empirical Software Engineering*, 24(4):2636–2673, 2019.

[J8] Amiangshu Bosu, J. C. Carver, C. Bird, J. Orbeck, and C. Chockley. Process aspects and social dynamics of contemporary code review: Insights from open source development and industrial practice at microsoft. *IEEE Transactions on Software Engineering*, 43(1):56–75, Jan 2017.

[J9] Amiangshu Bosu, Jeffrey C. Carver, Rosanna Guadagno, Blake Bassett, Debra McCallum, and Lorin Hochstein. Peer impressions in open source organizations: A survey. *Journal of Systems and Software, JSS '14*, 94:4 – 15, 2014.

Conference Papers

[C1] Md Awsaf Alam Anindya, Shovik Biswas, Anindya Iqbal, Jaydeb Sarker, and Amiangshu Bosu. ToxiShield: Promoting Inclusive Developer Communication through Real-Time Toxicity Filtering In *Proceedings of the The ACM International Conference on the Foundations of Software Engineering (FSE)*, FSE'26, 2026. **Acceptance rate = TBD**.

[C2] Saleh Amareen, Arif Rahman, Sazzadur Rahaman, and Amiangshu Bosu. GraphQLify: Automated and Type Safety-Preserving GraphQL API Adoption. In *Proceedings of the The ACM International Conference on the Foundations of Software Engineering (FSE)*, FSE'26, 2026. **Direct Acceptance rate = 87/920 (9.4%)**.

[C3] Syed Salauddin Mohammad Tariq, Foyzul Hassan, Amiangshu Bosu, Probir Roy. Cold-Start Anti-Patterns and Refactorings in Serverless Systems: An Empirical Study. In *Proceedings of the IEEE International Conference on Software Analysis, Evolution and Reengineering*, SANER'26, 2026. **Acceptance rate = 47/202 (23%)**.

[C4] Tanni Dev, Sayma Sultana, and Amiangshu Bosu. Beyond Binary Moderation: Identifying Fine-Grained Sexist and Misogynistic Behavior on GitHub with Large Language Models. In *Proceedings of the 2025 ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, ESEM '25, 2025. **Acceptance rate = 28/154 (18%)**.

[C5] Jaydeb Sarker, Asif K. Turzo, and Amiangshu Bosu. The Landscape of Toxicity: An Empirical Investigation of Toxicity on GitHub. In *Proceedings of The ACM International Conference on the Foundations of Software Engineering (FSE)*, FSE '25, 2025. **Direct Acceptance rate = 70/607 (11.5%)**.

[C6] Sayma Sultana, Gias Uddin, and Amiangshu Bosu. "Assessing the Influence of Toxic and Gender Discriminatory Communication on Perceptible Diversity in OSS Projects In *Mining Software Repositories (Registered reports)*, MSR '24, 2024.

[C7] Jaydeb Sarker, Sayma Sultana, Steve Wilson, and Amiangshu Bosu. ToxiSpanSE: An Explainable Toxicity Detection in Code Review Comments In *Proceedings of the 17th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement*, ESEM '23, pages 1-12, 2023. **Acceptance rate = 25/86 (29%)**.

[C8] Asif Kamal Turzo, Fahim Faysal, Ovi Poddar, Jaydeb Sarker, Anindya Iqbal and Amiangshu Bosu. Towards Automated Classification of Code Review Feedback to Support Analytics In *Proceedings of the 17th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement*, ESEM '23, pages 1-12, New York, NY, USA, 2023. ACM. **Acceptance rate = 25/86 (29%)**.

[C9] Sayma Sultana and Amiangshu Bosu. Are code review processes influenced by the genders of the participants? In *International Conference on Software Maintenance and Evolution (Registered reports)*, ICSME'2021, 2021.

[C10] Sayma Sultana, Jaydeb Sarker, and Amiangshu Bosu. A rubric to identify misogynistic and sexist texts from software developer communications. In *Proceedings of the 15th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, pages 1–6, 2021.

[C11] Rajshakhar Paul, Asif K. Turzo, and Amiangshu Bosu. Why security defects go unnoticed during code reviews? a case-control study of the chromium os project. In *Proceedings of the 43th International Conference on Software Engineering*, ICSE '21, page 1373-1385, 2021. **Acceptance rate = 138/302 (22%)**.

[C12] Jaydeb Sarker, Asif K. Turzo, and Amiangshu Bosu. A benchmark study of the contemporary toxicity detectors on software engineering interactions. In *Proceedings of the 27th Asia-Pacific Software Engineering Conference*, APSEC'20, December 2020. **Acceptance rate = 45/122 (37%)**.

[C13] Amiangshu Bosu and Kazi Zakia Sultana. Diversity and inclusion in open source software (oss) projects: Where do we stand? In *Proceedings of the 2019 ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, 2019. **Acceptance rate = 23/116 (19.8%)**.

[C14] Rajshakhar Paul, Amiangshu Bosu, and Kazi Zakia Sultana. Expressions of sentiments during code reviews: Male vs. female. In *Proceedings of the 26th IEEE International Conference on Software Analysis, Evolution and Reengineering*, SANER '19. IEEE, 2019. **Acceptance rate = 45/148 (30.4%)**.

[C15] Irfan Alahi, Mubassher Islam, Anindya Iqbal, and Amiangshu Bosu. Identifying the challenges of the blockchain community from stackexchange topics and trends. In *Proceedings of the 2019 International Computer Software and Applications Conference*, COMPSAC '19, pages 123–128. IEEE, 2019.

[C16] Partha Chakraborty, Rifat Shahriyar, Anindya Iqbal, and Amiangshu Bosu. Understanding the software development practices of blockchain projects: A survey. In *Proceedings of the 12th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement*, ESEM '18, pages 28:1–28:10, New York, NY, USA, 2018. ACM. **Acceptance rate = 30/140 (21%)**.

[C17] Sk. A. Hasan, Dipto Das, Anindya Iqbal, Amiangshu Bosu, Rifat Shahriyar, and Toufique Ahmed. Soqde: A supervised learning based question difficulty estimation model for stack overflow. In *Proceedings of the 25th Asia-Pacific Software Engineering Conference*, APSEC'18, pages 445–454, December 2018. **Acceptance rate = 50/191 (26%)**.

[C18] Kazi Z. Sultana, Byron Williams, and Amiangshu Bosu. A comparison of nano-patterns vs. software metrics in vulnerability prediction. In *Proceedings of the 25th Asia-Pacific Software Engineering Conference*, APSEC'18, pages 355–364, December 2018. **Acceptance rate = 50/191 (26%)**.

[C19] Amanda Lee, Jeffrey C. Carver, and Amiangshu Bosu. Understanding the impressions, motivations, and barriers of one time code contributors to floss projects: A survey. In *Proceedings of the 39th International Conference on Software Engineering*, ICSE '17, pages 187–197, Piscataway, NJ, USA, 2017. IEEE Press. **Acceptance rate = 68/398 (17%)**.

[C20] Toufique Ahmed, Amiangshu Bosu, Anindya Iqbal, and Shahram Rahimi. Senticr: A customized sentiment analysis tool for code review interactions. In *Proceedings of the*

32Nd IEEE/ACM International Conference on Automated Software Engineering, ASE 2017, pages 106–111, Piscataway, NJ, USA, 2017. IEEE Press. **Acceptance rate = 22%**.

[C21] Amiangshu Bosu, Fang Liu, Danfeng (Daphne) Yao, and Gang Wang. Collusive data leak and more: Large-scale threat analysis of inter-app communications. In *Proceedings of the 2017 ACM on Asia Conference on Computer and Communications Security*, ASIA CCS '17, pages 71–85, New York, NY, USA, 2017. ACM. **Acceptance rate = 73/359 (20%)**.

[C22] Amiangshu Bosu, Michaela Greiler, and Christian Bird. Characteristics of useful code reviews: An empirical study at microsoft. In *Proceedings of the 12th Working Conference on Mining Software Repositories*, MSR '15, pages 146–156, 2015. **Acceptance rate = 32/106 (30%)**.

[C23] Amiangshu Bosu and Jeffrey C. Carver. How do social interaction networks influence peer impressions formation? a case study. In Luis Corral, Alberto Sillitti, Giancarlo Succi, Jelena Vlasenko, and AnthonyI. Wasserman, editors, *Open Source Software: Mobile Open Source Technologies, OSS '14*, volume 427 of *IFIP Advances in Information and Communication Technology*, pages 31–40. Springer Berlin Heidelberg, 2014.

[C24] Amiangshu Bosu and Jeffrey C. Carver. Impact of developer reputation on code review outcomes in oss projects: An empirical investigation. In *2014 ACM / IEEE International Symposium on Empirical Software Engineering and Measurement*, ESEM '14, pages 33:1–33:10, Torino, Italy, 2014. **Acceptance rate = 23/123 (19)%**.

[C25] Amiangshu Bosu, Jeffrey C. Carver, Munawar Hafiz, Patrick Hilley, and Derek Janni. Identifying the characteristics of vulnerable code changes: An empirical study. In *22nd ACM SIGSOFT International Symposium on the Foundations of Software Engineering*, FSE '14, pages 257–268, Hong Kong, China, 2014. **Acceptance rate = 61/273 (22%)**.

[C26] Amiangshu Bosu and Jeffrey C. Carver. Impact of peer code review on peer impression formation: A survey. In *Proceedings of the 7th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement*, ESEM '13, pages 133–142, Baltimore, MD, USA, 2013. **Acceptance rate = 24/86 (28%)**.

[C27] Amiangshu Bosu, Christopher S. Corley, Dustin Heaton, Debarshi Chatterji, Jeffrey C. Carver, and Nicholas A. Kraft. Building reputation in StackOverflow: An empirical investigation. In *Proceedings of the 10th Working Conference on Mining Software Repositories*, MSR '13, pages 89–92, San Francisco, CA, USA, 2013. **Acceptance rate = 12/30 (40%)**.

Refereed Workshop / Short Papers / Posters

[S1] Rajshakhar Paul, Asif K. Turzo, and Amiangshu Bosu. A dataset of vulnerable code changes of the chromium os project. In *Proceedings of the 43th International Conference on Software Engineering, Artifact Evaluation track*, ICSE Companion '21, page TBD, 2021.

[S2] Sayma Sultana, London A. Cavaletto, and Amiangshu Bosu. Identifying the prevalence of gender biases among the computing organizations. In *ACM Celebration of Women in Computing: womENcourage, 2021*, womENcourage'21, page TBD, 2021.

[S3] Bosu, Amiangshu, Fang Liu, Danfeng Daphne Yao, and Gang Wang. Poster: Android collusive data leaks with flow-sensitive dialdroid dataset. In *Proceedings of the 2017 the 2017 IEEE Symposium on Security and Privacy*. IEEE, 2017.

[S4] Amiangshu Bosu. Characteristics of the vulnerable code changes identified through peer code review. In *Companion Proceedings of the 36th International Conference on Software Engineering - Student Research Competition*, ICSE Companion 2014, pages 736–738, Hyderabad, India, 2014.

[S5]Amiangshu Bosu, Jeffrey C. Carver, Munawar Hafiz, Patrick Hilley, and Derek Janni. When are oss developers more likely to introduce vulnerable code changes? a case study. In Luis Corral, Alberto Sillitti, Giancarlo Succi, Jelena Vlasenko, and AnthonyI. Wasserman, editors, *Open Source Software: Mobile Open Source Technologies*, volume 427 of *OSS '14*, pages 234–236. Springer Berlin Heidelberg, 2014.

[S6]Amiangshu Bosu. Mining repositories to reveal the community structures of open source software projects. In *Proceedings of the 50th Annual Southeast Regional Conference*, ACM-SE '12, pages 397–398, Tuscaloosa, Alabama, 2012.

[S7]Amiangshu Bosu. Modeling Modern Code Review Practices in Open Source Software Development Organizations . In *11th International Doctoral Symposium on Empirical Software Engineering*, IDoESE '13, Baltimore, MD, USA, 2013.

[S8]Amiangshu Bosu and Jeffrey C. Carver. Peer code review in open source communities using reviewboard. In *Proceedings of the ACM 4th annual workshop on Evaluation and usability of programming languages and tools*, PLATEAU '12, pages 17–24, Tucson, Arizona, USA, 2012.

Dissertation

[U1]Amiangshu Bosu. *Contemporary Peer Code Review Practices and Associated Benefits*. PhD thesis, The University of Alabama, June 2015.

Teaching

WSU courses

- CSC 4110- Software Engineering: Fall /Winter : 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026
- CSC 6110- Advanced Software Engineering: Winter 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024, Fall 2025

SIUC courses

- CS 435- Software Engineering: Spring 2016, Spring 2017, Spring 2018.
- CS 305- Software Development Practices: Fall 2016, Fall 2017.
- CS 304- Advanced Object Oriented Programming: Fall 2017.

Students

Current Graudate Students

- Arif Shariar Rahman (PhD, Fall 2024–)
- Sumaita Binte Shorif (PhD, Fall 2024–)

Graduated Students

- Sayma Sultana (PhD, Graduated in Summer 2025), Current Postdoctoral Fellow at Tulane University.
- Tanni Dev (MS, Fall 2023 – Summer 2025
- Saleh Amareen (PhD, Graduated in September 2024, Currently Software Architect IV at Domino's.
- Asif Kamal Turzo (PhD, Graduated in July 2024), Currently Assistant Professor at University of Massachusetts, Dartmouth.
- Jaydeb Sarker (PhD, Graduated in May 2024), Currently Assistant Professor at University of Nebraska, Omaha.

- Rajshakhar Paul (PhD, Graduated in March 2023).
- Tanzeer Hossain (MS, Graduated in 2019. Now at Amazon).
- Toufique Ahmed (MS, co-advised)

Undergraduate Students Mentored

- Farzana Israt
- Kevin Zhang
- Hemangi Murdande
- Eisha Akbar
- London Ariel Cavaletto
- Farah Tahnin
- Sabih Ijaz
- Ayush Kohli (SIUC)
- Jacob Reed (SIUC)
- Alec Waichunas(SIUC)

Awards by Mentored Students

- Sayma Sultana, 2023-2024 Rumble Fellow, Wayne State University.
- Asif Kamal Turzo, 2023 Best Graduate Research Assistant, Department of Computer Science, Wayne State University.
- Jaydeb Sarker, 2023 Best Graduate Teaching Assistant, Department of Computer Science, Wayne State University.
- Jaydeb Sarker, 2022-2023 Rumble Fellow, Wayne State University.
- Rajshakhar Paul, 2021-2022 Michael Conrad Best Paper award, Department of Computer Science, Wayne State University.
- Ayush Kohli, Third place, ACM Student Research Competition world final. Ayush and I are invited to the 2018 ACM awards ceremony (i.e., Turing award ceremony).
- Ayush Kohli, First place, ACM Student Research Competition in the 2017 Foundation of Software Engineering (FSE) conference.
- Ayush Kohli, 2017 -Best Undergraduate Researcher (Computer Science).
- Jacob Reed, First place, Undergraduate research category, 2016 ACM Midsoutheast conference.
- Ayush Kohli, Second place, Undergraduate research category, 2016 ACM Midsoutheast conference.
- Alec Waichunas, Creative and Scholarly Saluki Rookies (CSSR) research grant.
- Ayush Kohli, Research Enriched Academic Challenge (REACH) grant.

Professional service

Grant reviews:
- NSF review panel: 2024
- NSF review panel: 2023
- NSF review panel: 2023
- Research Grants Council, Hong Kong: 2021
- NSF review panel: 2020

- NSF review panel: 2019
- External program evaluator, American University of Kurdistan, Iraq: 2024
- Netherlands Organization for Scientific Research (NWO): 2018

Editorial Board:
- Journal of Systems and Software (JSS): 2018 – Current
- Software Quality Journal (SOQJ): 2021 – Current
- Array: 2019 – Current

Program Committee:
- Technical program committee: International Conference of Software Engineering (ICSE): 2024, 2025
- Technical program committee: ACM Symposium on the Foundations of Software Engineering (FSE): 2024, 2025, 2026
- Student research competition track: ACM Symposium on the Foundations of Software Engineering (FSE): 2024
- Technical program committee: The International Symposium on Empirical Software Engineering and Measurement (ESEM): 2019, 2020, 2021, 2022, 2023, 2024, 2025
- Technical program committee: IEEE Cybersecurity Development (SecDev): 2025
- Organizing committee: Automated Software Engineering (ASE): 2022
- Technical program committee: Automated Software Engineering (ASE): 2021, 2025
- Technical program committee: International Conference on Program Comprehension (ICPC): 2021
- Tool demo track: International Conference of Software Engineering (ICSE): 2021
- Technical program committee: The Evaluation and Assessment in Software Engineering (EASE): 2019
- Technical program committee: 6th International Conference on Networking, Systems and Security (NSyS): 2019,2020, 2021, 2022
- Technical program committee: The 23rd International Computer Science and Engineering Conference (ICSEC 2019)
- Tool demo track: Automated Software Engineering (ASE): 2019
- Research paper, The 25th Asia-Pacific Software Engineering Conference (APSEC 2018).
- Short papers and posters track, Empirical Software Engineering and Measurement (ESEM)- 2016, 2017
- Short Papers track, Evaluation and Assessment in Software Engineering (EASE)-2016, 2017, 2018
- Thailand Workshop on Software Engineering - (THAISE -2015)
- ACM Southeast Conference - 2012, 2017

Journal Reviewer:
- ACM Transactions in Software Engineering (TOSEM): 2018-2025
- IEEE Transcations in Software Engineering (TSE): 2015-2025
- Empirical Software Engineering (EMSE) 2015-2025
- Journal of System and Software (JSS): 2018-2024

- Automated Software Engineering (AUSE): 2020
- Information and Management (INFOMAN): 2020
- PeerJ Computer Science: 2019
- Artificial Intelligence Review (AIRE): 2020
- IEEE Transactions on Emerging Topics in Computing (TETC): 2020
- IEEE Transportation Systems Magazine (ITSM): 2018-2019
- IEEE Transactions on Dependable and Secure Computing (TDSC): 2016
- Information and Software Technology (IST): 2014, 2017, 2019-2021
- IEEE Acess 2018-2020
- IET Software
- Information, Communication and Society (ICS)
- Computing in Science and Engineering (CiSE)

Student Volunteer: SPLASH 2012

Conference Reviewer/Sub-reviewer: ASIACCS 2016, CODASPY 2016, JSEET 2015, EASE 2014, ESEM 2014, ESEM 2013, ISSRE 2013, ESEM 2012, ISSRE 2012, ACM Southeast 2012, ESEM 2011

Department / University Service:
- Co-Chair, Inclusive Excellence Committee, College of Engineering, Wayne State University.
- Member, Undergraduate Committee, Wayne State University.
- Member, Faculty search committee, Wayne State, 2019-2020, 2022-2023.
- Member, Graduate Committee, SIUC.
- Faculty Advisor, ACM Student Chapter, SIUC.
- Faculty Advisor, Bangladeshi Students' Association.

Software

- SGID4SE: Sexual orientation or Gender Identity based Discrimination identification for (4) Software Engineering texts Available at: `https://github.com/WSU-SEAL/SGID4SE`
- ToxiSpanSE: An Explainable Toxicity detector for code review comments. Available at: `https://github.com/WSU-SEAL/ToxiSpanSE`
- ToxiCR: A supervised learning based tool to identify toxic code review comments. Available at: `https://github.com/WSU-SEAL/ToxiCR`
- DIALDroid: A highly scalable tool to identify inter-app collusions and privilege escalations among Android apps. Available at: `https://github.com/dialdroid-android/DIALDroid`
- IC3-DIALDroid: An updated intent resolution tool for Android apps.: `https://github.com/dialdroid-android/ic3-dialdroid`
- SentiCR: An automated sentiment analysis tool for code review comments. Available at: `https://github.com/senticr/SentiCR`
- SentiSE: Sentiment Analysis for Software Engineering Interactions. Available at: `https://github.com/amiangshu/SentiSE`

Selected Press

04/19/2024   Wayne State researcher aims to improve coding peer review practices *WSU News*

02/22/2019	WSU researcher developing system to bolster FLOSS project coder communities *WSU News*
01/18/2019	How peer code reviews affect gender diversity in software engineering *WSU News*
04/03/2017	Your smartphone apps are 'secretly colluding' to spy on you in terrifying detail, researchers warn, *The Sun*
04/03/2017	Android apps are mining smartphone users' data by secretly colluding with each other, according to a new study., *Independent*
04/07/2017	When Apps Secretly Team Up to Steal Your Data, *MSN, The Atlantic*
04/03/2017	Android apps are 'secretly colluding' to spy on the private lives of MILLIONS of users, *Daily Mail*
04/04/2017	Is Your Data Safe? New Study Finds Android Apps Share Data Without Permission, *International Business Times*
04/03/2017	Android apps share data between them without your permission, *New Scientist*
04/03/2017	Virginia Tech Researchers: Android Apps Can Conspire to Mine Information From Your Smartphone, *ACM Technews*
04/03/2017	Android apps can conspire to mine information from your smartphone, *Phys.org*

Memberships

Senior Member, Institute of Electrical and Electronics Engineers, Inc. (IEEE)

Senior Member, Association of Computing Machinery (ACM)

Lifetime Member, Upsilon Pi Epsilon (CS Honor Society)

Treasurer, Upsilon Pi Epsilon, (2014-2015)

Invited talks /Tutorials

- *Building Diverse and Inclusive Software Development Teams through healthy communication* , 2024, University of Windsor, Ontario, Canada.
- *Seven Deadly Sins of Software Security*, 2019 6th International Conference on Networking, Systems and Security, Dhaka, Bangladesh
- *An Introduction to Empirical Software Engineering*, Oakland University, Rochester, MI, November 16th, 2018.
- *An Introduction to Empirical Software Engineering*, Wayne State University, Detroit, MI, November 6th, 2018.
- *An Introduction to Empirical Software Engineering*, University of Michigan-Dearborn, Dearborn, MI, October 26th, 2018.
- *An Introduction to Empirical Software Engineering*, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, July 2nd, 2018.

References

Available on request

December 29, 2025