Mia Mohammad Imran

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Professional Employment

Missouri University of Science & Technology — **Rolla, MO, USA**
Assistant Professor — *08/2024 - Present*

Virginia Commonwealth University — **Richmond, VA, USA**
Graduate Research Assistant/Graduate Teaching Assistant — *01/2020 - 07/2024*

Google — **Kirkland, WA, USA**
Software Engineering Intern — *05/2022 - 08/2022*

Wellbeing Lab, VCU Health — **Richmond, VA, USA**
Data Science Intern — *07/2023 - 08/2023*

Software Engineer — **Dhaka, Bangladesh**
Various Organizations — *2016-2019*

- **Impel IT Solutions** — 06/2019 - 11/2019
- **AnyConnect Private Limited** — 03/2018 - 05/2019
- **IPVision Canada Inc** — 08/2016 - 02/2018

Education

Virginia Commonwealth University — **Richmond, VA**
PhD, Computer Science — *2024*

University of Dhaka — **Dhaka, Bangladesh**
BSc., Computer Science and Engineering — *2016*

Publications

[1] Hasan, A. A., Saha, S., Imran, M. M., "**Learning Programming in Informal Spaces: Using Emotion as a Lens to Understand Novice Struggles on r/learnprogramming**," in *48th International Conference on Software Engineering: Software Engineering Education and Training (ICSE-SEET '26)*, 2026.

[2] Imran, M. M., Zaman, T. S., "OLAF: Towards Robust LLM-Based Annotation Framework in Empirical Software Engineering," in *3rd International Workshop on Methodological Issues with Empirical Studies in Software Engineering (WSESE)*, 2026.

[3] Imran, M. M., Zita, R., Rahman, R. R., Chatterjee, P., Damevski, K., "**Toxicity Ahead: Forecasting Conversational Derailment on GitHub**," in *Proceedings of the IEEE/ACM 48th International Conference on Software Engineering (ICSE)*, 2026.

[4] Mujahid, A. A., Imran, M. M., “"TODO: Fix the Mess Gemini Created": Toward AI-Induced Cognitive Incomprehension Debt in Self-Admitted Technical Debt,” in *Proceedings of the 9th ACM/IEEE International Conference on Technical Debt*, 2026.

[5] Hasan, A. A., Saha, S., Imran, M. M., Zaman, T. S., “LLPut: Investigating Large Language Models for Bug Report-Based Input Generation,” in *The 1st International Workshop on LLM App Store Analysis (LLMapp 2025)*, 2025.

[6] Imran, M. M., Sarker, J., “**"Silent Is Not Actually Silent": An Investigation of Toxicity on Bug Report Discussion**,” in *Proceedings of the ACM International Conference on the Foundations of Software Engineering (FSE)*, 2025.

[7] Ehsani, R., Imran, M. M., Zita, R., Damevski, K., Chatterjee, P., “Incivility in Open Source Projects: A Comprehensive Annotated Dataset of Locked GitHub Issue,” in *2024 IEEE/ACM 21st International Conference on Mining Software Repositories (MSR)*, IEEE, 2024, pp. 515–519.

[8] Imran, M. M., “Emotion Classification In Software Engineering Texts: A Comparative Analysis of Pre-trained Transformers Language Models,” in *Proceedings of the Third ACM/IEEE International Workshop on NL-based Software Engineering*, 2024, pp. 73–80.

[9] Imran, M. M., Chatterjee, P., Damevski, K., “**Shedding Light on Software Engineering-specific Metaphors and Idioms**,” in *Proceedings of the IEEE/ACM 46th International Conference on Software Engineering (ICSE)*, 2024.

[10] Imran, M. M., Chatterjee, P., Damevski, K., “**Uncovering the Causes of Emotions in Software Developer Communication Using Zero-shot LLMs**,” in *Proceedings of the IEEE/ACM 46th International Conference on Software Engineering (ICSE)*, 2024.

[11] Imran, M. M., Damevski, K., “Using Clarification Questions to Improve Software Developers’ Web Search,” *Information and Software Technology*, vol. 151, p. 107 021, 2022.

[12] Imran, M. M., Jain, Y., Chatterjee, P., Damevski, K., “**Data Augmentation for Improving Emotion Recognition in Software Engineering Communication**,” in *Proceedings of the 37th IEEE/ACM International Conference on Automated Software Engineering (ASE)*, 2022.

[13] Imran, M. M., Ciborowska, A., Damevski, K., “Automatically Selecting Follow-up Questions for Deficient Bug Reports,” in *2021 IEEE/ACM 18th International Conference on Mining Software Repositories (MSR)*, IEEE, 2021, pp. 167–178.

Professional Service

- **Program Committee Member:**
  - EASE 2026, SANER 2026, SIGCSE TS 2026
  - FSE 2025 (AI IDE 2025 track)
  - EASE 2025 (Awarded Best Reviewer)
- **Journal Reviewer:** IEEE Transactions on Software Engineering, Empirical Software Engineering, Information and Software Technology, Automated Software Engineering, IEEE Software

Courses Taught

As Faculty

Missouri University of Science & Technology

- Spring 2025: CS 4090 (SE Capstone I), CS 4091 (SE Capstone II)
- Fall 2025: CS 4090 (SE Capstone I)
- Spring 2026: CS 5001 (AI-Augmented Software Engineering)

As Teaching Assistant

Virginia Commonwealth University

- 2021, 2022: CMSC 455 (Software as a Service)
- 2020, 2021: CMSC 401 (Algorithm Analysis)
- 2020: CMSC 508 (Database Theory)

Student Mentorship

Doctoral Students (Thesis Advisor)

- Abdullah Al Mujahid *In progress, Spring 2025 –*
- Fariha Tanjim Shifat *In progress, Fall 2025 –*

Masters Students (Committee Member)

- Rasman Mubtasim Swargo, Missouri S&T *In progress*

Undergraduate Research Mentees

- 2025: Piper Jeffries (OURE Program, Missouri S&T)
- 2024: Bobby Zita, Rebekah Copeland, Christian Novalski, Steven Bui (REU Program, VCU)
- 2023: Bobby Zita, Xander Cole (REU Program, VCU)