Mia Mohammad Imran

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Missouri University of Science & Technology, Rolla, MO

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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 | *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 - 08/02023*

Impel IT Solutions | Dhaka, Bangladesh
Software Engineer | *06/2019 - 11/2019*

AnyConnect Private Limited | Dhaka, Bangladesh
Software Engineer | *03/2018 - 05/2019*

IPVision Canada Inc | Dhaka, Bangladesh
Software Engineer | *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*

Academic Training

Virginia Commonwealth University | Richmond, VA
Graduate Research Assistant | *2020-2024*

Virginia Commonwealth University | Richmond, VA
Graduate Teaching Assistant | *2020-2022*

Google LLC | Kirkland, WA
Software Engineering Intern | *2022*

Wellbeing Lab, VCU Health | Richmond, VA
Data Science Intern | *2023*

Publications

Learning Programming in Informal Spaces: Using Emotion as a Lens to Understand Novice Struggles on r/learnprogramming

- Authors: Hasan, A. A., Saha, S. & Imran, M. M. (2026).
- 48th International Conference on Software Engineering: : Software Engineering Education and Training (ICSE-SEET '26).

"Silent Is Not Actually Silent": An Investigation of Toxicity on Bug Report Discussion

- Authors: Imran, M. M., Sarker. J. (2025).
- Proceedings of the ACM International Conference on the Foundations of Software Engineering (FSE).

LLPut: Investigating Large Language Models for Bug Report-Based Input Generation

- Authors: Hasan, A. A., Saha, S. Imran, M. M. & Zaman, T. S. (2025).
- The 1st International Workshop on LLM App Store Analysis (LLMapp 2025).

Uncovering the Causes of Emotions in Software Developer Communication Using Zero-shot LLMs

- Authors: Imran, M. M., Chatterjee, P., & Damevski, K. (2024, April).
- Proceedings of the IEEE/ACM 46th International Conference on Software Engineering.

Shedding Light on Software Engineering-specific Metaphors and Idioms

- Authors: Imran, M. M., Chatterjee, P., & Damevski, K. (2024, April).
- Proceedings of the IEEE/ACM 46th International Conference on Software Engineering.

Emotion Classification In Software Engineering Texts: A Comparative Analysis of Pre-trained Transformers Language Models

- Author: Imran, M. M. (2024, April).
- Proceedings of the Third ACM/IEEE International Workshop on NL-based Software Engineering (pp. 73-80).

Incivility in Open Source Projects: A Comprehensive Annotated Dataset of Locked GitHub Issue

- Authors: Ehsani, R., Imran, M. M., Zita, R., Damevski, K., & Chatterjee, P. (2024, April).
- 2024 IEEE/ACM 21st International Conference on Mining Software Repositories (MSR) (pp. 515-519). IEEE.

Data Augmentation for Improving Emotion Recognition in Software Engineering Communication

- Authors: Imran, M. M., Jain, Y., Chatterjee, P., & Damevski, K. (2022, October).
- Proceedings of the 37th IEEE/ACM International Conference on Automated Software Engineering. 2022.

Using Clarification Questions to Improve Software Developers' Web Search

- Authors: Imran, M. M., & Damevski, K. (2022).
- Used methodologies: LSTM, CNN, Learning to Rank models.
- Information and Software Technology, 151, 107021.

Automatically Selecting Follow-up Questions for Deficient Bug Reports

- Authors: Imran, M. M., Ciborowska, A., & Damevski, K. (2021, May).
- 2021 IEEE/ACM 18th International Conference on Mining Software Repositories (MSR) (pp. 167-178). IEEE.

Professional Service

- Program Committee Member:
  - SIGCSE TS 2026
  - FSE 2025, AI IDE 2025 track
  - EASE 2025, Learnings/Reflections of Evaluation and Assessment projects in Software Engineering-track
  - EASE 2025, Short Papers and Emerging Results **(Awarded best reviewer)**
  - EASE 2026
  - SANER 2026

- Reviewer at journals such as IEEE Transactions on Software Engineering, Empirical Software Engineering, Information and Software Technology, Automated Software Engineering, etc.

Courses Taught

6.1 As Faculty

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

6.2 As Teaching Assistant

- VCU
  - 2021, 2022 - CMSC 455. Software as a Service, VCU
  - 2020, 2021 - CMSC 401. Algorithm Analysis, VCU
  - 2020 - CMSC 508. Database Theory, VCU

Doctoral Students, Thesis Advisor

- Abdullah Al Mujahid, *in progress*, since Spring 2025
- Fariha Tanjim Shifat, *in progress*, since Fall 2025

Masters Students, Committee Member

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

Undergraduate Students, Mentor

- 2024, Bobby Zita, Undergraduate Student, REU Program, VCU
- 2024, Rebekah Copeland, Undergraduate Student, REU Program, VCU
- 2024, Christian Novalski, Undergraduate Student, REU Program, VCU
- 2024, Steven Bui, Undergraduate Student, REU Program, VCU
- 2023, Bobby Zita, Undergraduate Student, REU Program, VCU
- 2023, Xander Cole, Undergraduate Student, REU Program, VCU