Md Nadim Mahmud

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Education

M.S. in Computer Science

Aug 2024 – Present

Miami University, Oxford, OH

Anticipated Graduation: May 2026

GPA: 4.0

Research Interests: LLM, AI, Machine Learning, Wheelchair Accessibility

BSc. Engg. in Computer Science & Engineering

University of Rajshahi, Rajshahi, Bangladesh

GPA: 3.92

Employment

Therap Bd Ltd., Dhaka, Bangladesh

Oct 2022 – July 2024

Software Engineer

Tech Stack: Java Spring Framework, Hibernate, Oracle SQL, JSP, JavaScript, jQuery

- Played a key role in developing a scalable push notification framework, used by 300,000+ users
- Developed Excel upload/download solutions using internal frameworks, improving data entry efficiency by 80%
- Implemented advanced archive and search functionality with internal frameworks
- Developed database migration scripts
- Conducted thorough code reviews, ensuring quality and best practices

Samsung R & D Institute Bangladesh, Dhaka, Bangladesh

June 2022 - Oct 2022

Jan 2017 - May 2022

Engineer II

- Contributed to the development of the Samsung Smart Ring communication protocol module
- Developed an Android app to test the RTOS communication module

Projects

Activity Detection Using Sensor Data (ML) | Project Link

Oct 2024 - Dec 2024

- Trained ML models for activity recognition, achieving 67% accuracy
- Applied feature engineering with PCA and TSFresh
- Optimized models using GridSearchCV and RandomizedSearchCV

Urban Sprawl Detection (GIS) | Project Link

Nov 2024 - Dec 2024

- Analyzed urban sprawl in Dhaka using remote sensing and GIS with USGS data
- Computed and visualized NDBI, SAVI, MNDWI, and IBI indices for land use assessment

RU Contacts App (10000+ downloads) | PlayStore Link

April 2022 – June 2022

- Developed a contacts app for Rajshahi University using Android Studio and Kotlin
- Implemented MVVM architecture for better maintainability and scalability

Leadership and University Engagements

Graduate Teaching Assistant, Miami University, Oxford, OH

Aug 2024 – Present

Mentoring students in their Software Engineering projects, helping with design and implementation

Programming Club Trainer, University of Rajshahi, Rajshahi, Bangladesh

Jan 2018 – May 2022

- Conducted 100+ Algorithm and Data Structure sessions
- Organized 20+ programming contests

Achievements and Programming Contests

Faculty of Engineering Dean's List, University of Rajshahi
 Academic Years: 2017, 2018, 2019, 2020

Ranked 6th in ITEE FE Exam taken by IPA of Japan

Nov 2022

• Passed professional test at Samsung R & D Bangladesh

Sept 2022

Ranked 25th, Nadim Mahmud, Samsung R&D Bangladesh Coding Contest

2019

• Ranked 74th, RU Squadron, ICPC Dhaka regional contest

2019

Language and Technologies

- Programming Languages: C, C++, Java, Python, JavaScript, Matlab
- Tech-Stack: Java Spring, Hibernate, JSP, MySQL, Oracle SQL
- Version Control: Git, GitHub, Bit-bucket