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MD NADIM MAHMUD

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EMPLOYMENT

Graduate Teaching Assistant at Miami University, Ohio, USA   **19 August 2024 — Present**

- Courses: Introduction to Software Engineering, Software Architecture and Design

Software Engineer at Therap BD Ltd.   **1 1 October 2022 — 30 July 2024**

- Full Stack web development with Java Spring Framework, Hibernate as ORM, Oracle SQL, Jsp, JavaScript, jQuery
- Developed scalable push notification framework for therap services
- Participated in code review bug fix and misc feature development

Engineer II at Samsung R&D Institute Bangladesh   **18 July 2022 — 30 Sep 2022**

- Android Application Development

EDUCATION

MS in Computer Science, Miami University, Ohio, USA.   **August 2024 — Present**
Graduate Coursework: Machine Learning, Remote Sensing & Computer Vision

B.Sc. Engg. in Computer Science & Engineering, University of Rajshahi, Bangladesh.   **January 2017 — July 2022**
CGPA: 3.92 out of 4
Undergraduate Coursework: Algorithms; Data Structures; Object Oriented Programming with Java; Operating Systems; Databases; Programming Languages; Networking; System Design; Parallel Processing.

RESEARCH AND PROJECTS

Activity Detection Using Sensor Data (ML) Project Link   **October 2024 — December 2024**
- Trained different ML models for activity recognition on time-series sensor data.
- Feature engineering using PCA, TSFresh.
- Hyperparameter tuning using GridSearchCV, RandomizedSearchCV

Urban Sprawl Detection (GIS) Project Link   **November 2024 — December 2024**
- Urban sprawl detection using remote sensing and GIS in Dhaka City.
- Analysis of USGS data using python

RU Contacts App (10000+ downloads) Play Store Link   **April 2022 — June 2022**
- Contacts app of Rajshahi University
- Android Studio, Kotlin, Used MVVM architecture

ACHIEVEMENTS

- Received **Dean's Award** in every **four** academic year
- Ranked **6th in ITEE FE** Exam taken by IPA of Japan
- Passed professional level test at Samsung R & D Bangladesh while employed by Samsung
- **Ranked 25th**, Nadim_Mahmud, Samsung R&D Bangladesh Coding Contest 2019
- **Ranked 74th,** RU_Squadron, ICPC 2019 Dhaka regional contest.

VOLUNTEER WORK

- **CSE RU Programming Club, Trainer** (2018 — 2022): I took ~100 Algorithm and Data Structure sessions of the juniors of University Of Rajshahi and arranged ~20 contests in vjudge.

LANGUAGES AND TECHNOLOGIES

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