

MD. MEHEDI HASAN NAIM

Software Engineer | Java, Spring Boot

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📍 Dhaka, Bangladesh

🌐 Website

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Professional Experience

Software Engineer, Unisoft Systems Ltd

November 2025- Present | Dhaka

- Actively contributing to the Loan Management System of multiple banking projects.
- Diagnosed and resolved production bugs in live banking environment, ensuring system stability.
- Developed features, fixed bugs and improved application performance and stability collaboratively.
- **Tech stack:** Java 21, Spring Boot 3, JPA, Mysql, Postgrasql, jQuery, Jasper Report, Docker, Git

Technical Skills

- **Programming Knowledge:** Java, C/C++, Python, HTML, CSS, JS, SQL
- **Frameworks & Libraries:** Spring Boot, jQuery
- **Database Management:** PostgreSQL, MySQL
- **Tools & Technologies:** IntelliJ IDEA, VS Code, Google Colab, Postman, Docker, Git

Projects

IntelliStudy 🔗

April 2026

AI-Powered Learning Platform

- Developed an AI learning platform using Spring Boot and the Gemini API, implementing a **Hybrid RAG pipeline (DuckDB + JGraphT)** for precise document Q&A, summarization, and dynamic quiz generation.
- Built a secure and scalable backend, utilizing Redis caching to accelerate AI responses.

Technologies: Technologies: Java 21, Spring Boot 3.5, Gemini API, DuckDB, Redis, JGraphT, MySQL, JWT, Docker, jQuery.

Distributed Job Scheduler 🔗

June 2026

Fault-Tolerant Distributed Job Execution Across Worker Nodes

- Built Distributed Locking (Compare-and-Set) with Consistent Hashing to distribute and execute jobs across nodes without race conditions.
- Implemented Leader Election, Heartbeat & Failover to detect dead nodes and reassign orphaned jobs to healthy workers.

Technologies: Java 21, Spring Boot 3, PostgreSQL, Spring Data JPA, Spring Scheduler, Git

Competitive Programming Profile

Individual

- **Top 1%(Champion)**, Take off programming contest Fall-2021 🔗
- Codeforces Profile - mh_naim_ (Max rating: **1399, Pupil**) 🔗 Ranked 17th (Div 4) 🔗, 20th (Div 2) 🔗 in Bangladesh
- Codechef Profile- mh_naim (Max rating: **1425**) 🔗 Ranked 12th (Div 4) 🔗 in Bangladesh

Team Contests

- **Top 1%(Champion)**, DIU_Aim3rs, Unlock Algorithm Programming contest Fall-2022 🔗
- **20th** - DIU_Sedulous, UAP Inter University Collaborative Programming Contest 1.0 🔗
- **Top 61%**- DIU_3rror, ICPC Dhaka regional contest 2024 🔗
- **72th** - DIU_Sedulous, CUET Inter University Programming Contest CodeStorm 1.0 🔗

Total **2200+** Data structure & Algorithm based problems solved in numerous platforms.

Volunteer Experience

Problem setting & Judging (2022-Present)

- Associate Judging Director - Unlock Algorithm Programming contest Fall-2023
- Authored & Tested 10+ problems.
- Problem Setter & Judge — Prompt Battle 2024 (First-ever Prompt Engineering contest in Bangladesh)

Trainer - C-khoon (Trained C programming language)

Education Background

B.Sc. in CSE, Daffodil International University

04/2021-06/2025

CGPA: 3.84(On a scale of 4.00)