

# Md Fakhrul Islam

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## WORK EXPERIENCE

<b>Software Engineer</b>	Mar 2023 – Present
<i>Therap Services LLC (HQ: Connecticut, USA)</i>	<i>Dhaka, Bangladesh</i>
<ul style="list-style-type: none"><li>Engineered a fault-tolerant, asynchronous file exchange system (Spring, SFTP) to orchestrate secure data transmission for <b>320,000+</b> monthly invoices, reducing manual workload by <b>110+</b> hours.</li><li>Spearheaded the architectural migration of a legacy batch monolith into a distributed system, guiding a <b>4-engineer</b> squad to drive a <b>3x</b> throughput increase while maintaining <b>99.9%</b> uptime.</li><li>Developed a full-stack <b>Self-Service Test Automation Portal</b> (Spring Boot, React) for independent test execution, eliminating release bottlenecks and <b>automating ~21%</b> of manual test cases.</li><li>Secured the software supply chain for a <b>150+ developer</b> platform, achieving <b>100% audit compliance</b> by orchestrating critical library upgrades and enforcing dependency governance.</li></ul>	

**Technology Stack:** Java (Spring Boot, MVC), React, Playwright, Nginx, Docker, Oracle, Git.

## TECHNICAL SKILLS

**Languages:** Java, C++, Python, JavaScript

**Databases:** Oracle, PostgreSQL, MySQL, Redis, ChromaDB

**Development:** Spring Boot, Spring MVC, FastAPI, React, Redux Toolkit, jQuery, RESTful APIs, JWT, WebSockets

**Applied AI:** RAG Systems (ChromaDB, SBERT), LLM Integration (Ollama), Unsupervised Anomaly Detection

**DevOps & Cloud:** Docker, Amazon Web Services (AWS), Nginx, Kafka

**Testing & Automation:** Playwright, JUnit, Selenium, Pytest

**Version Control & CI/CD:** Git, GitHub Actions

## ACHIEVEMENTS

- Codeforces: Max Rating **1955 (Candidate Master)** - top **2.56%** — Handle: fakhrulsojib
- Codechef: Max Rating **2282 (6\*)** - top **0.2%** — Username: fakhrulsojib
- Ranked **21st** in 2021 & 2022 ICPC Asia Dhaka Regional Online Preliminary Contest (ICPCID)

## PROJECT EXPERIENCE

**Pulse AI** | *FastAPI, Kafka, Postgres, Docker, Redis, ChromaDB (RAG), Ollama (local LLM), SBERT embeddings*

Built a real-time log analytics pipeline (Kafka, FastAPI) with unsupervised anomaly detection and behavior tracking; RAG-based NL queries via ChromaDB + local LLM (Ollama), Docker, Redis, PostgreSQL.

**Expenalyzer** | *Spring Boot, REST API, Docker, JUnit, Git, Amazon RDS*

RESTful financial backend with JWT auth and Amazon RDS; Dockerized, tested with JUnit.

## EDUCATION

**Shahjalal University of Science and Technology**

Sylhet, Bangladesh

*Bachelor of Science in Mathematics*

Feb 2018 – Mar 2023

- Relevant Courses: C Language (4.00), Data Structures (4.00), Algorithm Design (3.75)
- Extracurricular: **Vice President and Programming Mentor** at Euclid Programming Club