

Md Fakhrul Islam

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WORK EXPERIENCE

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

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

TECHNICAL SKILLS

Programming 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