

Md. Asif Rahman

Software Engineer · Java & Spring Boot · Backend & Full-Stack
· GIS & Emerging AI

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SUMMARY

Software engineer with 2+ years of professional experience building backend-heavy enterprise and GIS systems in Java and Spring Boot. Comfortable across the stack: PostgreSQL/PostGIS data modelling and spatial queries, REST API design and security, Angular/Next.js frontends, and Docker/Nginx deployment on Linux. Currently studying machine learning and NLP with a long-term aim of combining engineering, AI and research.

EXPERIENCE

CTrends Software & Services Limited

Programmer	Oct 2023 – Present
Trainee Programmer	May 2024 – Present
Intern, Software Development	Jan – Apr 2024
	Oct – Dec 2023

- Designed and built REST APIs with Spring Boot, Spring MVC and Hibernate/JPA for enterprise management and administrative systems.
- Built GIS features on PostGIS and OpenStreetMap data — POI management, spatial queries, and mapping solutions.
- Integrated third-party APIs and implemented authentication, authorization (RBAC) and API security.
- Handled deployment: Docker images, Ubuntu servers, Nginx reverse proxy configuration.
- Wrote tests and participated in code review, Git/GitLab workflows and releases.

Java · Spring Boot · PostgreSQL · PostGIS · Angular · Docker · Nginx

SELECTED PROJECTS

CTrends Maps

GIS · Mapping · Company project

CTrends' web mapping platform built on OpenStreetMap data and PostGIS. I work on the search and POI management side: the spatial search APIs behind the map's search box and the tooling used to manage points of interest.

Java · Spring Boot · JPA · PostgreSQL · PostGIS · OpenStreetMap · REST APIs · Docker

CTrends EBS — Enterprise Business Solution

ERP · Enterprise · Company project

A web-based ERP covering an organisation's core business operations. I worked on the Audit module — the part of the system that records, reviews and reports on audit activity across the other modules.

Java · Spring Boot · Hibernate · PostgreSQL · REST APIs · RBAC

Wanderly

Personal project · Full-stack

A collaborative trip-planning app: build a shared itinerary with friends, track the budget, split costs, keep bookings and packing lists in one place, and see it all on a map. Live at trip.wheelsofwander.com.

Next.js · TypeScript · React

SKILLS

Backend	Java, Spring Boot, Spring MVC, Hibernate / JPA, REST API design, API security & auth, Testing
Frontend	JavaScript, Angular, Next.js, HTML / CSS, Bootstrap, TypeScript
Database & GIS	PostgreSQL, PostGIS, Spatial SQL, OpenStreetMap data, GIS data processing, Query optimisation
DevOps & Infrastructure	Docker, Linux / Ubuntu, Nginx, Git, GitLab / GitHub, CI/CD basics
Currently learning	Machine Learning, NLP, Reinforcement Learning, AI-assisted development, Software architecture

EDUCATION

BSc in Computer Science & Engineering	2022
Daffodil International University, Dhaka	
CGPA 3.71 / 4.00 · four-year programme	
HSC (Science) — Government Shaheed Bulbul College, Pabna, Rajshahi Board	2017 · GPA 4.17 / 5.00
SSC (Science) — Radhanagar Majumdar Academy School & College, Pabna, Rajshahi Board	2015 · GPA 4.83 / 5.00

INTERESTS

Artificial Intelligence · Natural Language Processing · Reinforcement Learning · Machine Learning · GIS · Software Architecture

LANGUAGES

English (Professional working proficiency) · Bengali (Native)