

Pramananda Sarkar

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Education

BSc in Computer Science and Engineering

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Bangladesh University of Engineering and Technology(BUET), Dhaka, Bangladesh.

Relevant Coursework: Advanced Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Computer Security, Information & System Design, Software Engineering

Projects

InfoPulse - Microservices, Typescript, React, Postgresql, Mongodb, Gemini API

A personalized news recommendation site

- Collected real-time news via **NewsAPI(newsapi.org)** and a custom **web crawler**.
- Performed semantic analysis using **Gemini API**, tracked every user interaction, and generated recommendations.
- Implemented **CI/CD pipeline** with GitHub Actions, **unit testing** with Jest, and deployed to **Azure VM**.

Game Server - GO, websocket, Concurrency

A multiple-player server application

- Developed **server-based multiplayer**, multi-game(snake game, tic-tac-toe) server using **Gorilla WebSocket**.
- Managed concurrency with **Go mutex locks**.
- Built a **serverless in-game chat** system for real-time player communication.

ToolsAI - Spring boot, Java, React , Postgresql (In Development)

AI tools management and searching website

- AI tools management and discovery platform with **multi-role user support**.
- Features: **subscription**, likes, **comments**, and a sample **wiki** for AI tools.
- Implemented real-time **notifications** for user activities.

Skills

Languages: Java, Go, Python, JavaScript/TypeScript, C, HTML, CSS

Frameworks & Libraries: Spring Boot, FastAPI, Gin, Gorilla Mux, NestJS, Express.js, Next.js, React, Tailwind CSS

Databases: PostgreSQL, MongoDB, Oracle

Tools & Platforms: Git, GitHub, Docker, GitHub Actions, Linux