

Zannatul Naim

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WORK EXPERIENCE

Synesis IT

Software Engineer I

June 2024 – Present

Dhaka, Bangladesh

- Designed and implemented real-time notification system using WebSocket to serve 1000+ concurrent users.
- Engineered a WebRTC monitoring system to diagnose performance bottlenecks in large-scale video calls.
- Developed a scalable centralized management tool with Spring Boot 3 (backend) and React.js (frontend).
- Engineered a desktop application with Go and Wails for native cross-platform compatibility.
- Stack:** Go, Wails, Spring Boot 3, React.js, WebSocket, RabbitMQ, Redis

Sentien.io

Software Engineer

Jan 2024 – June 2024

Newark, Delaware, United States

- Led a 5-engineer team to boost productivity and collaboration delivering key infrastructure improvements.
- Implemented Infrastructure as Code with Terraform, cutting costs by 47.5% and increasing uptime.
- Engineered automated CI/CD pipelines using GitHub Actions to accelerate both Windows & Linux deployments.
- Introduced shared schema migration framework ensuring data consistency across microservices.
- Stack:** Flask, React.js, Terraform, GitHub Actions, Docker, Azure

Warranty-Worx

Software Engineer (Part-Time)

Mar 2023 – Dec 2023

California, United States

- Built MERN stack warranty platform serving 500+ users reducing processing time by 60%.
- Maintained 99.9% uptime deploying on Render.com infrastructure.
- Stack:** MongoDB, React.js, Express.js

ICT Cell, BUET

Software Engineer (Part-Time)

Oct 2021 – Mar 2023

Dhaka, Bangladesh

- Led backend for BUET's Job Portal (1,000+ users, 200+ concurrent) optimizing for scale.
- Improved performance by 40% via caching and PostgreSQL query optimization.
- Maintained high availability and resolved 15+ critical production issues with Docker and Nginx.
- Stack:** Python, PostgreSQL, React.js, Docker, Nginx

PROJECTS

- Scalable Websocket:** Go WebSocket server supporting 10,000+ concurrent connections. [*Go, RabbitMQ, Redis, k6*]
- Soul Animal:** Terraform infrastructure project for Azure, reduced manual errors by 85%. [*Terraform, Azure*]
- POC Learning Platform:** Serverless microservices for scalable online learning. [*Express.js, Serverless, AWS*]

TECHNICAL SKILLS

- Languages: Proficient:** Go, JavaScript, Python **Familiar:** Java, SQL
- Backend Frameworks:** Express.js, Flask, Spring Boot
- Tools & Technologies:** Docker, Nginx, RabbitMQ, Redis, Terraform
- Databases & Cloud:** PostgreSQL, MySQL, AWS, Azure

EDUCATION

Bangladesh University of Engineering and Technology

Bachelor of Science in Computer Science and Engineering

2019 – 2024

EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

- DevOps Hackathon Organizer:** Arranged DevOps hackathon with 50+ participating teams.
- DevOps Workshop Instructor (BUET CSE Fest 2023):** Led hands-on CI/CD workshop. [*@workshop-demo*]
- DU-IIT IT-Verse 2023 (DevOps): Winner** – Built tax return platform for 1,000+ users. [*AWS ECS, GitHub Actions, Terraform*]
- BUET CSE Fest Hackathon 2022 (DevOps): Winner** – Built highly available vaccination registration system. [*AWS CodePipeline, Load Balancer*]