

Zannatul Naim

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WORK EXPERIENCE

Synesis IT

Software Engineer 1

Aug 2024 – Present

Dhaka, Bangladesh

- Designed and implemented real-time notification system using WebSockets, RabbitMQ, and Redis.
- 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.
- Technologies:** Go, Wails, Spring Boot 3, React.js, WebSockets, RabbitMQ, Redis

Sentien.io

Software Engineer

Jan 2024 – July 2024

Newark, Delaware, United States

- Led a 5-engineer team to boost productivity and collaboration, delivering key infrastructure improvements.
- Cut cloud costs by 47.5% and increased system uptime by implementing Infrastructure as Code with Terraform.
- Accelerated both Windows & Linux deployments with automated GitHub Actions CI/CD pipelines.
- Introduced a shared schema migration framework to ensure data consistency across microservices.
- Technologies:** Flask, ReactJS, Terraform, GitHub Actions, Docker, Azure

Warranty-Worx

Software Engineer

Mar 2023 – Dec 2023

California, United States

- Built a MERN stack warranty platform serving 500+ users and automating workflows.
- Reduced claim processing time by 60% with automated validation and tracking.
- Ensured 99.9% uptime and reliability by deploying and maintaining application infrastructure on Render.com.
- Technologies:** NodeJS, MongoDB, React, Express, Render.com

ICT Cell, BUET

Software Engineer

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.
- Technologies:** Python, NodeJS, PostgreSQL, ReactJS, Docker, Nginx

PROJECTS

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

TECHNICAL SKILLS

- Languages:** C/C++, Go (Golang), Java, JavaScript, Python, SQL, TypeScript
- Frameworks & Libraries:** Django, Express.js, FastAPI, Flask, Prisma, Spring Boot
- Tools & Technologies:** Docker, Git, Nginx, RabbitMQ, Redis, Serverless, Terraform
- Databases & Cloud:** MongoDB, MySQL, Oracle, PostgreSQL, AWS, Microsoft Azure

EDUCATION

Bangladesh University of Engineering and Technology

Bachelor of Science in Computer Science and Engineering

2019 – 2024

CGPA: 3.27

EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

- DevOps Hackathon Organizer:** Arranged DevOps hackathon with 50+ participating teams, created question sets and marking criteria, and participated in the judging process.
- 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 vaccination registration system with zero downtime. [*AWS CodePipeline, Load Balancer*]