Zannatul Naim

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WORK EXPERIENCE

Cielara AI
Nov 2025 - Present

Software Engineer — *Redmond, Washington, United States*

- Developing knowledge base system for root cause analysis (RCA) enabling automated infrastructure issue detection.
- Writing comprehensive tests for resource scanning across multicloud provider ensuring accurate infrastructure monitoring.
- Contributing to digital twin impact simulation system analyzing infrastructure code before merge, predicting potential issues and failures.
- **Stack**: Go, Python, Kubernetes, Azure, GCP, AWS

Synesis IT
June 2024 - Oct 2025

Software Engineer I — *Dhaka, Bangladesh*

- Designed and implemented notification system using WebSocket serving 1000+ concurrent users with sub-second latency.
- Developed WebRTC monitoring system diagnosing performance bottlenecks in large-scale video calls.
- Developed scalable centralized management tool with Spring Boot 3 and React.js reducing administrative overhead by 50%.
- **Stack**: Spring Boot 3, Go, Wails, React JS, WebSocket, RabbitMQ, Redis

Sentien.io
Jan 2024 - June 2024

Software Engineer — *Newark, Delaware, United States*

- Managed 5-engineer team delivering infrastructure improvements, reducing deployment failures by 60%.
- Implemented Infrastructure as Code with Terraform, cutting costs by 47.5%, increasing uptime to 99.95%.
- Automated CI/CD pipelines with GitHub Actions for Windows and Linux reducing release cycle from days to hours.
- Created shared schema migration framework ensuring data consistency across microservices.
- **Stack**: Flask, React JS, Terraform, GitHub Actions, Docker, Azure

Warranty-Worx
Mar 2023 - Dec 2023

Software Engineer (Part-Time) — *California, United States*

- Developed MERN stack warranty platform serving 500+ users reducing processing time by 70%.
- Maintained 99.9% uptime deploying on Render.com infrastructure with automated monitoring, alerting systems.
- **Stack**: MongoDB, React JS, Express JS

ICT Cell, BUET
Oct 2021 - Mar 2023

Software Engineer (Part-Time) — *Dhaka, Bangladesh*

- Designed and developed application architecture for BUET Job Portal reducing application lifecycle from 3 months to 1 week.
- Built application scrutiny system decreasing review time from 1 month to 1 week, reducing hiring time by 300%.
- Developed backend for job listing system eliminating manual job posting, reducing costs by 100% while improving accuracy.
- Optimized database queries and implemented caching strategies improving response time, handling 200+ concurrent users.
- System serves 10,000+ applicants facilitating streamlined hiring process across departments with zero downtime.
- **Stack**: Express JS, PostgreSQL, 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*]

TECHNICAL SKILLS

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

EDUCATION

Bangladesh University of Engineering and Technology
2019 - 2024

Bachelor of Science in Computer Science and Engineering

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** – Designed scalable tax return platform. [*AWS, Terraform, GitHub Actions*]
- **BUET CSE Fest Hackathon 2022 (DevOps): Winner** – Designed highly available vaccination registration system. [*AWS*]