

Ehasan Ahmed

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Summary

Software Engineer and System Architect with expertise in designing scalable solutions. Proficient in backend and full-stack development with specialization in microservices and event-driven architectures. Experienced in leveraging AWS and GCP cloud platforms to deploy robust applications that streamline operations and drive business value.

Skills & Tech Stack

Programming: Python, JavaScript/TypeScript, Go, SQL, Bash

Frameworks & Libraries: Node.js (Express.js, Fastify), Django, Flask, FastAPI; Frontend: React, Next.js, Tailwind CSS, Material-UI

Databases: MySQL, PostgreSQL, MongoDB, SQLite, Redis

Cloud & DevOps: AWS, GCP, Firebase, Docker, CI/CD (GitHub Actions), Nginx, Linux

Architecture: Microservices, Event-Driven Systems, System Design, Backend Optimization

IoT & Real-Time: MQTT, WebSocket, ESP32, Real-Time APIs, Data Pipelines, Dashboard Development

Automation & AI: n8n Workflow Automation, AI Integration, Basic Machine Learning, Data Processing

Blockchain & Security: Ethereum, Multichain, Hyperledger, Smart Contracts (Solidity), Security Research

Work Experience

Junior Software Engineer

Jan. 2024 – Present

Ngaze – Dhaka, Bangladesh

- Integrated payment gateways (Stripe, SSLCommerz) enabling recurring payments and secure transactions
- Migrated codebase from SCSS to Tailwind CSS, reducing development time by 20%
- Developed diverse question formats increasing user engagement by 15%
- Implemented Zoom Meeting API supporting 4,000 concurrent students
- Automated backend workflows using n8n streamlining content delivery

IoT Programmer/Full Stack Developer

Feb. 2023 – Dec. 2023

Datasoft Manufacturing & Assembly Inc. – Dhaka, Bangladesh

- Built IoT monitoring platforms managing data from 400+ sensors
- Led backend development for NFC cashless credit system piloted with 500+ farmers
- Optimized REST APIs processing 10,000+ records per hour
- Deployed hybrid AWS/GCP infrastructure achieving 99.9% uptime
- Delivered production-ready solutions across cross-functional teams

Key Achievements

12th Place in Bangladesh	2023
IEEEExtreme 17.0	
Top 10 Finalist	2023
CTO Forum Hackathon	
2nd Runner Up	2022
ULAB Hackathon	
1st Runner Up	2021
ULAB Takeoff Programming Contest	
1st Runner Up	2021
GP Academy - Cisco Quiz Competition	

Education

B.Sc. in Computer Science and Engineering	Sept. 2020 – Aug. 2025
ULAB – Dhaka, Bangladesh	
Higher Secondary Certificate	Jan. 2017 – Dec. 2019
Notre Dame College – Dhaka, Bangladesh	

Extracurricular Activity

General Secretary & Vice Chairperson	2021 – 2023
IEEE ULAB Student Branch – Dhaka, Bangladesh	
• Coordinated activities to foster collaboration and member engagement.	
• Planned and executed workshops, seminars, and conferences.	
• Boosted membership through recruitment strategies and events.	
• Collaborated with the executive team to set long-term goals and improve branch performance.	
Vice President & Lifetime Member	2018 – 2019
Notre Dame Photography Club – Dhaka, Bangladesh	
• Organized the annual festival "Aperture F/2", including sponsors, manpower, and promotion.	
• Strengthened the community through workshops, exhibitions, and partnerships.	
• Guided club activities to boost engagement and member skills.	