

# 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

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

## Education

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

## Extracurricular Activity

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<b>General Secretary &amp; Vice Chairperson</b>	2021 – 2023
IEEE ULAB Student Branch – Dhaka, Bangladesh	
<ul style="list-style-type: none"><li>• Coordinated activities to foster collaboration and member engagement.</li><li>• Planned and executed workshops, seminars, and conferences.</li><li>• Boosted membership through recruitment strategies and events.</li><li>• Collaborated with the executive team to set long-term goals and improve branch performance.</li></ul>	
<b>Vice President &amp; Lifetime Member</b>	2018 – 2019
Notre Dame Photography Club – Dhaka, Bangladesh	
<ul style="list-style-type: none"><li>• Organized the annual festival "Aperture F/2", including sponsors, manpower, and promotion.</li><li>• Strengthened the community through workshops, exhibitions, and partnerships.</li><li>• Guided club activities to boost engagement and member skills.</li></ul>	