Ehasan Ahmed

Dhaka, Bangladesh | ehasan.ahmed01@gmail.com | +8801836382018 | icarus-afk.github.io

linkedin.com/in/ehasan-ahmed

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
Nov. 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

Full Stack Developer
Apr. 2024 – Sep. 2024

Havicma Logistics – Florida, US

- Developed proof-of-concept courier backend and core logic for delivery management
- Optimized schemas and real-time communication, improving performance by 40%
- Implemented authentication and security measures ensuring data integrity

IoT Programmer/Full Stack Developer
Feb. 2023 – Feb. 2024

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

IEEEXtreme 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.