

AWESH ISLAM

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PROFESSIONAL SUMMARY

AI-focused **Full-Stack Engineer** specializing in **Node.js/Python/TypeScript**, with production experience building **RAG pipelines**, autonomous agents, and agentic workflow systems across EdTech, Fintech, and AI-SaaS. Led high-traffic backend systems (100,000+ users) and delivered US remote consulting engagements spanning **SOC 2 compliance**, **Kubernetes** infrastructure, and fintech wallet systems (**Formance Ledger, Stripe, Noah, Privy**). Global hackathon champion. BSc. CSE graduate, BUET (2026).

PROFESSIONAL EXPERIENCE

Priyo

Dhanmondi, Dhaka

Software Engineer

07/2025 – Present

- **AI-Driven Hiring Platform:** Developing backend for an AI-powered recruitment platform using **Python (Django)** and PostgreSQL, managing 5,000+ applications and 30+ enterprise clients with automated candidate screening and matching logic.
- **Facebook Automation Agent:** Built an autonomous Facebook agent that analyzes user engagement and response patterns, then generates and publishes contextually relevant posts — fully automating community management and content scheduling.
- **Wallet & Payment Infrastructure:** Engineered the core wallet infrastructure for **Priyo Pay** — a USD account platform enabling Bangladeshi freelancers and remote workers to receive global payments, hold USD, and cash out; built on **Formance Ledger, Stripe, Noah, and Privy**, covering wallet creation, business onboarding, cash-in, cash-out, and P2P transfers.
- **Cross-Border Payments:** Built a multi-currency payment module accepting cards, bank transfers, digital wallets, and UPI — with transaction validation, encryption, and audit logging for cross-jurisdictional compliance.
- **Infrastructure & DevOps:** Manage multi-service deployment on **GCP** using Docker, maintaining system reliability for Next.js frontend and Django backend with automated health checks and monitoring.
- **Platform Development:** Contributing to Priyo Academy, a skill-building platform, focusing on scalable database design, RESTful API optimization, and preparing architecture for future multi-tenant expansion.

Luminary AI

West Virginia, USA (Remote)

Software Consultant (Contract)

12/2025 – 03/2026

- **DocuSense (RAG Pipeline):** Built a PDF ingestion system with **contextual chunking**, dense and hybrid retrieval, and in-document result highlighting for precise source attribution.
- **NOVA (AI Workflow Builder):** Improved graph node traversal logic; built connectors for **Google, arXiv, and Telegram**; developed an agentic loop that autonomously builds, verifies, and auto-corrects workflows on failure.
- **SOC 2 Compliance:** Led end-to-end SOC 2 compliance implementation across the full product stack, covering audit logging, access controls, and security policy enforcement.
- **Infrastructure:** Managed **Kubernetes**-based deployment infrastructure; executed a service-wide migration to **PostgreSQL** for improved reliability and operational consolidation.

ACS Future School

Mirpur, Dhaka

Software Engineer L2 (Backend Lead) (Hybrid)

07/2024 – 09/2025

- **Technical Leadership:** Led backend development in a 5-person team, designing and implementing a **Node.js microservice architecture** on AWS (EC2, RDS, Docker, API Gateway) serving 100,000+ users with high availability.
- **AI Agent Development:** Built an **autonomous browser agent** for community management using Puppeteer, and a **sales-bot pipeline** that transcribes, analyzes sentiment, and scores 200+ daily calls automatically.
- **RAG & LLM Integration:** Developed a **context-aware chatbot** using RAG, grounded in national curriculum textbooks and 10+ years of exam data, with custom data cleaning and embedding pipelines.
- **Real-time Systems:** Scaled **WebSocket infrastructure** and notification system for 8,000+ concurrent users using **Redis/ElastiCache** for state management and pub/sub messaging.
- **Behavioral AI & Migration:** Built a predictive engine generating personalized sales talking points from user activity data; orchestrated migration from serverless to containerized AWS infrastructure, reducing costs while improving performance.

EARLY EXPERIENCE

CoderVai

Software Engineer

Mirpur, Dhaka

07/2024 - 09/2024

- Implemented payment gateway integrations (Stripe/SSLCommerz), real-time notifications using WebSockets, and video streaming infrastructure for an EdTech platform serving 5,000+ users.

BinduLogic

Software Development Intern

Mirpur, Dhaka

01/2022 - 06/2022

- Contributed to backend development of a health-tech ticketing platform using Node.js and PostgreSQL, focusing on API optimization and database queries.

FREELANCE PROJECTS (2024-2025)

NestGo

USA (Remote)

Electron.js, Puppeteer, Node.js

- Built a desktop application using Electron.js and Puppeteer to streamline ticket purchase workflows on e-commerce platforms, implementing automated form filling and checkout processes.
- Developed bot detection mitigation strategies and asynchronous task scheduling to handle multiple concurrent purchase sessions with real-time inventory tracking.

Praxis Academy

Dhaka, Bangladesh

Spring Boot, Next.js, SQL

- Built a full-stack educational platform for a major Bangladeshi publisher, implementing a gamification engine and database architecture managing 30,000+ curriculum questions.
- Developed a context-aware AI tutor using RAG pipelines grounded in national curriculum content, providing real-time study assistance and personalized learning recommendations.

Sabertooth

Australia (Remote)

Next.js, Node.js, Stripe API

- Developed a peer-to-peer car rental marketplace; integrated **Stripe API** for secure financial transactions and **Google Maps API** for proximity-based vehicle discovery.

Stanford Ling Six Test

Stanford, USA (Remote)

Frontend Engineer | Next.js, TypeScript

- Delivered a high-performance, accessible web application from Figma specifications, achieving a **98/100 Accessibility score** and ensuring cross-browser compatibility.

EDUCATION

Bangladesh University of Engineering and Technology

Palashi, Dhaka

BSc., Computer Science And Engineering

01/2022 - 06/2026

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript
- **Backend Frameworks:** Node.js, Express, Django, Spring Boot
- **Frontend:** React, Next.js, Tailwind CSS
- **AI/ML:** LLM APIs (OpenAI, Gemini), RAG, Vector Search, LangChain, CrewAI
- **Databases:** PostgreSQL, MySQL, Redis
- **DevOps:** AWS (EC2, RDS, ElastiCache, API Gateway), GCP, Docker, Kubernetes, CI/CD
- **Real-time Systems:** WebSocket, Redis Pub/Sub, BullMQ

REWARDS AND RECOGNITIONS

- ILM AI (City St George's, University of London) Hackathon Champion 2025
- Kaggle Community Olympiad 2025 - Fighting Maternal Risk - 4th
- DU AI Challenge 2025 - 3rd
- DU IT Hackathon 2025 - CHAMPION
- World Invention Competition and Exhibition 2025 - Champion and Best Project
- BUET CSE Fest Hackathon 2024 - 1st Runners up
- IEEE-CS Game Jam 2023 - Top 10 Finalist
- Inter School College Programming Contest - Champion (2018), 10th Place (2017)
- BdPhO National 11th Place (2020); BdMO Regional Winner (2016, 2020, 2021); BdBO Regional Winner (2020)