

MD. JUBAER HOSAIN

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EXPERIENCE

Cefalo Bangladesh Ltd. Dhaka · Jan 2024 to Present

Associate Software Engineer II (Mar 2026 to Present) · **Associate Software Engineer I** (Mar 2025 to Mar 2026), full-time

Client: Subrite, a subscription and media monetization SaaS built for a Nordic client and live in production with publishers.

- **Led onboarding of new tenants**, collaborating with technical and non-technical stakeholders to understand legacy systems, map data, and execute safe, repeatable migrations into Subrite.
- **Improved recurring-payment reliability** across Stripe, Vipps, SwedbankPay, and Nets by implementing idempotent payment workflows, preventing duplicate charges and missed billing events.
- **Designed and rolled out multi-tenant isolation**, enforcing tenant-scoped data access across the platform and preventing cross-tenant data exposure.
- **Improved dashboard and high-computation API performance** from **150 seconds to milliseconds** by implementing SWR caching and fixing N+1 query problem.
- **Owned production issues end-to-end**, coordinating with product owner, CTO, and customer support to diagnose incidents, prioritize fixes, and deliver reliable backend and full-stack solutions.
- **Tools & Technology:** TypeScript, Python, SQL, NestJS, Next.js, React, PostgreSQL, Redis, Queue, Temporal, Stripe, Vipps, Nets, SwedbankPay, SendGrid, CI/CD, Sentry.

Trainee Software Engineer, (full-time Jan–Jun 2024, part-time thereafter) · Dhaka Jan 2024 to Feb 2025

Internal Cefalo products: Payroll (May 2024 – Feb 2025) and ATS (Nov – Dec 2024).

- **Cefalo Payroll:** Contributed to the NestJS/Next.js payroll platform, delivering employee management, salary calculation, tax-compliance workflows, and Kafka-based asynchronous data exchange with the HR Portal.
- **Cefalo ATS:** Joined an unfamiliar codebase for a one-month engagement, quickly becoming productive and fixing backend and frontend defects to improve recruitment workflow stability.
- **Training and Pet Project:** Trained on HTTP, REST and web fundamentals, then built Cefalo Blog end to end with rich-text authoring, JWT auth with social login, and role-based access control.

SKILLS

LANGUAGES & FRAMEWORKS: TypeScript, JavaScript, SQL, Python, Java, C++, NestJS, ExpressJs, React, React Native, Next.js, Tailwind CSS, Redux

DATABASE, CLOUD & PLATFORM: PostgreSQL, MySQL, MongoDB, Redis, Temporal, BullMQ, Docker, AWS, GitHub Actions, Sentry, Stripe, Vipps, EHF e-invoicing, JWT, OIDC/OAuth 2.0, multi-tenancy, Jest

AI-ASSISTED DEVELOPMENT & ML: Claude, Cursor, Anthropic SDK, LangChain, RAG

PROJECTS

nestjs-transactions Jul 2026 to Present

- ★ **Tools & Technologies:** TypeScript, NestJS, TypeORM, Prisma, pnpm
- Published two MIT-licensed npm packages implementing a `@Transactional()` decorator with `AsyncLocalStorage`-based transaction propagation and configurable transaction isolation levels, inspired by Spring Boot's transactional model.

Mess Ledger Feb 2026 to Present

- ★ **Tools & Technologies:** NestJS, PostgreSQL, Expo, React Native
- Shipped meal-expense-splitting product whose API and mobile app share a generated OpenAPI client for wire-level type safety, with subscriptions, push notifications, PDF reports and Sentry.

CloudTask Jul 2026

- ★ **Tools & Technologies:** Turborepo, NestJS, Next.js, AWS ECS Fargate, RDS, SQS, S3
- Built an AWS reference architecture for hands-on cloud learning: web app, API, and SQS worker in one monorepo with Zod-shared contracts, Testcontainers and Playwright tests, and OIDC-authenticated ECR releases via GitHub Actions.

CV Analyzer AI Agent Jul to Aug 2025

- ★ **Tools & Technologies:** FastAPI, LangChain, Qdrant, PostgreSQL OpenAI, Ollama, NestJS, Next.js
- **Led backend, LLM integration, and RAG development** for a hackathon-built AI recruitment assistant that ranks CVs against job descriptions using real-time PDF parsing, semantic search, conversational context and memory, and PII anonymization before LLM processing.

PROBLEM SOLVING & AWARDS

1700+ problems solved. **LeetCode Knight (top 5%)**, best rank 652 · HackerEarth rank 23 · CodeChef 4-star, rank 96 · Codeforces Specialist.

Champion, Independence Cup Programming Contest 2022 · **6th of 650+**, Phitron Programming Contest 2022 · **17th** in SEC IUJPC 2022 · **Onsite finalist**, BUET CSE FEST Hackathon 2023 · **Round 2**, Meta Hacker Cup 2023

COURSES

AWS Certified Developer Associate (Udemy) · Mastering DevOps (Ostad) · React Native: The Practical Guide (Udemy) · AWS Solutions Architect Associate (Udemy) · Building with the Claude API (Anthropic)

EDUCATION

Institute of Information Technology, University of Dhaka 2019 to 2024
B.Sc. in Software Engineering Dhaka, Bangladesh