Abu Jubair Bin Amin

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Education

American International University - Bangladesh — Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering; ***CGPA: 3.76/4.00*** — *Jan 2020 – Mar 2026*

Kurigram Govt College — Kurigram, Bangladesh
Higher Secondary Certificate; ***GPA: 5.00/5.00*** — *2018 – 2019*

Competitive Programming Achievements

- **Rank 50 / 1700+ teams, ICPC Preliminary 2025** (AIUB_ColdBlood)
- **Rank 38 in DUET IUPC 2025** (AIUB_Peak_Hotasha)
- **Rank 48 in UU IUPC 2025** (AIUB_Peak_Hotasha)
- **Rank 1838 in Meta Hacker Cup 2025** (Round 2 | jubair7)
- **Codeforces: Specialist | Max 1424 | 1500+ solved** (jubair7)
- **3rd, CS Fest INTRA AIUB Contest 2024** (Senior Division)

Experience

Astha IT — Dhaka, Bangladesh
Software Engineer Intern — *July 2026 – Oct 2026*

- Designed and built backend services with **ASP.NET Core (.NET 10)**, **C#**, and **PostgreSQL (EF Core)** using **Clean Architecture** and **CQRS (MediatR)** for recruitment workflows and job lifecycles.
- Built multi-role auth (**JWT**, **Google OAuth**, OTP) and an **AWS S3** multipart upload pipeline with in-memory **AI resume extraction** for automated profile parsing.
- Developed portal UIs with **Next.js 16**, **TypeScript**, **Tailwind CSS**, and **TanStack Query**; wrote unit tests with **xUnit**, **Moq**, and **Jest**.

6sense HQ — Dhaka, Bangladesh
Backend Intern — *May 2026 – July 2026*

- Engineered NestJS/MongoDB services integrating Jira & GitHub APIs into role-based performance dashboards.
- Secured REST APIs with org-scoped authorization to prevent IDOR flaws and enabled real-time metric filtering.
- Refined performance-tracking logic for sub-tasks and bug states, resolving a critical false-positive bug.
- Automated GitHub PR metric tracking, including code convention compliance and review counts.

Projects

Xpense (AI Personal Finance Workspace) | *Tools: NestJS, React, PostgreSQL, LangChain, MCP* — **Links:** Code | Live

- Built a full-stack finance app (NestJS 11, React 19, PostgreSQL) tracking accounts, income, expenses, loans, and borrowings, with net worth, cash flow, and spending-insight dashboards.
- Developed a streaming **AI assistant** using **LangChain** and **Gemini** that queries live user data through **MCP** tools over Streamable HTTP, injecting the JWT payload into each tool call for per-user data isolation.
- Implemented **SSE** streaming with persisted chat history; secured the API with JWT, Google OAuth, and input validation.
- Cut dashboard latency by moving aggregation to PostgreSQL; tested with Jest/Supertest; shipped via Docker + Nginx.

Dosely (Medicine Tracker) | *Tools: Node.js, Express, PostgreSQL, React* — **Links:** Code | Live

- Built a modular REST API (Node.js, TypeORM) with an "Auto-Deduction Engine" that dynamically calculates medicine consumption from schedules.
- Improved dashboard speed with B-Tree indexing and relation counting; fixed server-time drift via timezone logic.
- Built a responsive React/Tailwind CSS interface with modular components; secured sessions via **JWT** and **Google OAuth**.

Skills

Languages: C/C++, C#, Java, JavaScript, TypeScript

Frameworks & Libraries: ASP.NET Core, Next.js, React, NestJS, Node.js, EF Core, TanStack Query, Tailwind CSS

AI & LLM Integration: LangChain, AI Agents, MCP, Tool Calling, RAG, Text Embeddings

Tools & Platforms: Git, PostgreSQL, MongoDB, Docker, Nginx, AWS S3, Postman, Swagger

Core Concepts: Clean Architecture, CQRS, RESTful APIs, OOP, Data Structures & Algorithms