

Adnan Ahmed

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Final-year Computer Science student and A2SV competitive programmer applying algorithmic rigor to backend engineering — recently shipped a production visitor-payment platform through a university-secured internship and a full-stack tutoring marketplace, while executing a self-directed roadmap across six backend ecosystems.

EDUCATION

Addis Ababa University

Bachelor of Science in Computer Science

GPA: 3.80

Expected June 2027

Africa to Silicon Valley (A2SV)

Competitive Programming and Software Engineering Trainee

Jan 2026 – Present

PROJECTS

TutorLink

github.com/PROFESSOR-ADNAN/TutorLink

Full-stack tutor–student marketplace — MERN + Socket.IO

- **Engineered JWT authentication** with HTTP-only cookies, email verification, and password-reset flows — avoiding the XSS exposure of token storage in localStorage
- Modeled a MongoDB/Mongoose schema for tutor–student matching (subject, availability, rating) alongside a review system with auto-recalculated ratings
- Built a Stripe-integrated booking system (Payment Intents, webhook-driven confirmation) and real-time chat via Socket.IO with persisted message history
- Hardened the API with NoSQL-injection sanitization, per-route rate limiting, and Helmet-enforced CSP headers; containerized the stack with Docker Compose and CI via GitHub Actions

Self-Directed Backend Mastery Roadmap

Active, ongoing

- Executing a structured roadmap building hands-on projects across six backend ecosystems — Node/Express, Django, FastAPI, NestJS, Go, Rust — to build genuine polyglot depth rather than single-stack proficiency

Academic Projects — Design & Analysis of Algorithms

Team coursework

- **Connect-Ethio:** led the BFS/DFS graph-traversal implementation for a team project building a social-network pathfinding tool
- **Huffman Coding analysis:** led the complexity analysis and implementation write-up for a team technical report

SKILLS

Languages: JavaScript, PHP

Technologies: Express.js, React, Laravel, Socket.IO, REST APIs, Stripe, Telebirr & CBE Birr Payment Integration

Databases and Tools: MongoDB, MySQL, Docker, Git

Currently Building: Django, FastAPI, NestJS, Go, Rust, Firebase, Supabase, Linux Systems Programming

COMPETITIVE PROGRAMMING

Codeforces: codeforces.com/profile/Professor_Adnan — 1013 rating (Newbie), 252 solved · **LeetCode:**

leetcode.com/u/professorAdnan — 247/3,991 solved, rank #623,390