Alfardil Alam

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EDUCATION

New York University | New York, NY   Sep 2023 – May 2027
B.A Computer Science and Mathematics
Relevant Coursework: *Data Structures & Algorithms, Basic Algorithms, Operating Systems, Software Engineering, Linear Algebra, Multivariable Calculus*
Awards: *Winner Hack@Brown 2025*

EXPERIENCE

Software Engineer Intern, New York, NY   May 2025 – Aug 2025
Lexor Strategies

- Developed **Fome**, a college rental platform, with **450+** buildings scraped using web crawlers. Presented estimated database costs to clients to optimize client infrastructure planning.
- Patched OAuth implementation on Expo handling PKCE, ensuring secure authentication and accurate client data retrieval.
- Pitched automation tools at networking events, expanding the client pipeline + driving adoption across diverse industries.

Web Developer, New York, NY   Jan 2025 – May 2025
NYU High Speed Research Network

- Worked with Docker-based deployments for authentication services using Keycloak SSO and Netbox cloud-based authentication, then streamlined device/MAC address management within a custom dashboard through Knex queries.
- Created RESTful API functions to manage CRUD operations for interacting with the cloud instance.
- Optimized internal database queries to ensure low latency for a fiber cable network boasting up to 100 gbps.

Software Developer, Bronx, NY   Feb 2023 – Present
Synergy Prep

- Maintained an AI web app written in Flask & React that generates documents with user-selected topics to eliminate academic weaknesses. Used by **200+** students with over **7000+** messages sent & **800+** documents generated.
- Prepared customized math lessons for 7th and 8th grade students to excel in the SHSAT. Provided discrete AMC solutions and college preparation tips to 11th graders, increasing test readiness. Boosted diagnostic scores by up to 40%.

PROJECTS

CodeBloom   codebloom.patinanetwork.org | github.com/tahminator/codebloom

- Developed a competitive coding platform using React & SpringBoot, allowing Patina Network mentees to track & compare LeetCode progress on a real-time leaderboard with the goal of providing motivation to the community.
- Reverse engineered & integrated GraphQL queries from leetcode.com in order to access data programmatically and bypass rate-limiting of existing APIs. Tracked over **6000** questions with **120+** users and **20+** stars on Github.
- Optimized custom SQL queries to create RESTful API endpoints, custom objects, and database models to store and retrieve data efficiently through Postgres. Set up scheduled tasks to regularly fetch data through background tasks.

Devboard, AI Project Management Tool   devboard.ai | github.com/alfardil/gitty

- Created a FastAPI pipeline using an agentic LLM workflow to simplify developer onboarding, generating coherent Mermaid.js system diagrams and detailed code explanations.
- Implemented RAG using pgvector embeddings to reduce LLM hallucinations dramatically by retrieving chunks from Postgres. Stored and retrieved data with raw SQL queries maintaining a warm async connection to reduce latency.
- Integrated Github's GraphQL API to fetch repo metadata and file contents, powering authenticated data hooks and prioritizing RAG queries on highlighted code files.

SKILLS

- **Languages:** Java, TypeScript, Python, C
- **Web Development:** HTML, CSS, React, Next.js, Nodejs, JSON, Vite, Knex, Jest, pnpm, Express.js, Flask, Spring, React Query
- **Database:** SQL, Postgres, SQLite, Firebase, MongoDB, Neon, DrizzleORM, Prisma, Flyway DBeaver, TablePlus
- **Others:** Git, Docker, AWS, DigitalOcean, Docker, Bash, CI/CD, OpenAI, Langchain, Stripe, Fly.io, Nodemailer, Postman, VSCode, Maven, K8s

LEADERSHIP

Men's Ultimate Frisbee – Captain   Sep 2021 – Present

- Managed $25k in donations and school funding while coordinating travel, accommodations, and game schedules for 25+ athletes across multiple out-of-state tournaments; also boosted team visibility through social media content that attracted 20k+ viewers and hundreds of new followers.