

# Alfardil Alam

📍 Bronx, NY ☎ (917) 399-4480 ✉ [alfardil.alam@nyu.edu](mailto:alfardil.alam@nyu.edu) 🐾 [github.com/alfardil](https://github.com/alfardil) 💬 [linkedin.com/in/alfardil](https://linkedin.com/in/alfardil)

## EDUCATION

---

**New York University**, New York, NY

Sep 2023 – May 2027

B.A Computer Science and Mathematics

Relevant Coursework: *Data Structures, Basic Algorithms, Operating Systems, Software Engineering, Linear Algebra, Calculus III*

Awards: *Winner Hack@Brown 2025, Winner BYTE Hacks 2025*

## EXPERIENCE

---

**Security Researcher**, New York, NY

Nov 2025 – Present

NYU Secure Systems Lab

- Implemented the read access control rules for gittuf, a platform agnostic Git security system, as used by Bloomberg.
- Authored a setup command that abstracts cryptographic key management and policy provisioning, increasing developer initialization rate by cutting onboarding time by 90%.

**Network Researcher**, New York, NY

Jan 2025 – Dec 2025

NYU High Speed Research Network

- Collaborated with an Agile team of 5 to deploy authentication services using Keycloak SSO and Netbox authentication powering the developer workflows of 7+ student research groups.
- Created a query log to monitor app state changes and device MAC addresses, supporting the traffic of 120+ researchers.

**Software Engineer Intern**, New York, NY

May 2025 – Sep 2025

Lexor Strategies

- Launched a real estate rental platform, developing the core automated task infrastructure that powered the data pipeline and secured the first 20+ customer conversions.
- Patched OAuth PKCE implementation on a fitness app with 100k+ followers generating an estimated \$15,000 yearly.

**Software Engineer**, Bronx, NY

Feb 2023 – Sep 2025

Synergy Prep

- Maintained an AI web app written in Flask & React that generates documents with user-selected topics to eliminate academic weaknesses as used by 200+ students with over 7000+ messages sent & 800+ documents generated.

## PROJECTS

---

**CodeBloom**

⌚ [codebloom.patinanetwork.org](https://codebloom.patinanetwork.org) | 🐾 [github.com/tahminator/codebloom](https://github.com/tahminator/codebloom)

- Developed a competitive coding platform using React & SpringBoot, allowing college students 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* to access data programmatically and bypass rate-limiting of existing APIs. Tracked 12,000+ questions with 210+ users and 35+ 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 cron jobs to regularly fetch data.

**Thestral**

- Built a developer tool with FastAPI, ingesting any GitHub repository to generate system design diagrams and provide granular context on code usage, accelerating contributions to the open source community.
- Engineered an asynchronous RAG ingestion pipeline using LangChain and pgvector, implementing concurrent batching to reduce repository indexing latency by at least 60% while managing 300k+ token workloads.

## SKILLS

---

- **Languages:** Java, Python, TypeScript, JavaScript, Go, C, C++, Bash
- **Development:** HTML, CSS, React, Next.js, Node.js, Vite, Knex, React Native, Expo, Vercel, Express.js, Flask, Spring Boot, Github Actions
- **Database:** SQL, PostgreSQL, SQLite, Firebase, MongoDB, Neon, DrizzleORM, Prisma, Flyway, DBeaver, TablePlus
- **Others:** Git, Docker, AWS, Azure, DigitalOcean, OpenAI, Langchain, Stripe, Fly.io, Nodemailer, Postman, VSCode, Maven, Google Cloud

## LEADERSHIP

---

**Captain**, Men's Ultimate Frisbee

Sep 2021 – Present

- Managed \$25k in funding while coordinating travel, accommodations, and game schedules for 20+ athletes across multiple out-of-state tournaments; boosted team visibility through social media content attracting 80k+ views & 500+ followers.