

Rafiat Amir

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EDUCATION

Temple University

Bachelor of Science

Graduation Date: May 2028

Philadelphia, PA

- Major: Computer Science | Minor: Artificial Intelligence
- **GPA: 3.4** | Honors: Dean's Scholarship
- Coursework: Data Structures & Algorithms, Operating Systems, User Experience Design
- Organizations: Trading Tech, Innovation Management Fellow, Beta Theta Pi

EXPERIENCE

Founder & Software Engineer

Temple Parties

Jan. 2026 – May 2026

Philadelphia, PA

- Built and launched a campus event-discovery web application in **React/FastAPI/PostgreSQL** after **90+** conversations, scaling from zero to **2,500+** weekly active users in one semester.
- Architected the **Python/FastAPI** backend with passwordless **OTP authentication** and JWT-protected endpoints, fixed **race condition** that produced inaccurate RSVP counts.
- Built an interactive Leaflet map in **Next.js/TypeScript** with custom pins for spatial context.
- Increased ratings by **38%** by replacing the 5-star rating system with a binary like/dislike flow with a matching **SQL** migration, triggered by drop-off data.
- Designed host-ranking system using a **Wilson lower-bound confidence interval** over rating counts, surfacing consistently well-rated hosts over small-sample outliers.

Software Engineer Intern

Temple University Electron Microscopy Facility

July 2026 – Present

Philadelphia, PA

- Ran requirements discovery with the facility director, designed **sitemaps, user flows, and Figma wireframes**; building on **WordPress** with University IT.
- Digitized the PI-signed instrument request process directly to FOM, eliminating manual intake.

Product Engineer Intern

CRSH Market

May 2026 – June 2026

New York City

- Shipped the profile and leaderboard pages as retention levers: league-based ranking system and an activity-driven profile, increasing **D7 return rate** from **32% to 56%** post-launch.
- Redesigned the **prediction-market taxonomy**, mapping 12 content categories to 3 resolution mechanisms (opinion, objective, challenge), resulting in traceable resolution conditions.

Data Analyst

Temple University Energy Department

June 2025 – Jan. 2026

Philadelphia, PA

- Processed utility bills across 375+ accounts, replaced the manual reconciliation with a **Java tool** that diffs CSV & JSON exports to flag missing accounts, **saving 1/2 hour** per check.

PROJECTS

FlyingAlpha: M&A Signals From Corporate Jet Movements | HackBrown 2026

- Built the **React/TypeScript** front end: an interactive flight map with **GSAP-animated** flight paths, wired with Google Finance so selecting a company surfaces its live price chart.

File System On Virtual Disk

- Wrote a **FAT file system in C**: 12 calls covering create, open, read, write, seek, truncate, and delete, with all data and metadata stored inside a single 32 MB file acting as the disk.

TECHNICAL SKILLS

Languages: Java, Python, C, TypeScript, HTML, CSS, SQL

Frameworks: React, Next.js, Tailwind CSS, FastAPI, React-Leaflet, GSAP

Developer Tools: Supabase, Git, Vercel, Railway, Linux, Figma, PostHog, Coding Agents