

Ibraheem Amin

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EDUCATION

Princeton University

August 2024 – May 2028

B.S.E in Computer Science; Major GPA: 3.871/4.000

Princeton, NJ

- **Relevant Coursework:** Distributed Systems, Data Structures & Algorithms, Application Development, Probability and Stochastic Systems, Natural Language Processing, Machine Learning, Reasoning about Computation, Advanced Theoretical Computer Science, Honors Linear Algebra, Data & Culture, F26: Functional Programming, Computer Architecture
- **Course Lab TA:** Provided student support for 200-level courses Data Structures and Algorithms and Systems Programming

EXPERIENCE

Software Engineer Intern

June 2026 – August 2026

KnotAPI

New York, NY

- Triageed persistent-connection incidents across **120+ integrations** by building mobile emulator scripts, proxy and session monitors, and agent workflows to analyze **HAR** network files using **Frida**, **HTTPToolkit**, and **mitmproxy**
- Resolved intermittent failures in high-volume (**10k tasks/15 min**) **Cloud Tasks** queues by routing connect workloads to dedicated **Cloud Run** replicas and implementing canary rollouts via **Laravel Pennant** feature flags
- Built and deployed internal AI router and agent harness on **GCP Kubernetes** with pod-level isolation and tracing, integrating company knowledge bases, CLIs, Slack, and Linear; reduced monthly company-wide AI spend from **\$34.3K to \$0.8K**

President, Senior Software Engineer

September 2025 – Present

TigerApps

Princeton, NJ

- Lead a **50-member** product and engineering organization while owning production infrastructure and developer operations on **AWS** for **7+ TigerApps** serving as the primary apps hub for **11k+** Princeton University students and faculty
- Designed and shipped new campus products and shared AI infrastructure, including a unified data layer powering chat applications with **11,000+ user messages** in launch week, and secured **\$7K per semester** in funding from Anthropic

Applied AI Intern

December 2025 – February 2026

PlayMaker Software Inc.

Remote, New York, NY

- Built a **Selenium** and **Playwright** pipeline in **Python** that aggregated and normalized partnership and sentiment data from **20+ sources** across professional and minor-league sports
- Developed **reactive** campaign-generation workflows and **RAG** system via **Convex** that converted branding, team, and audience data into sponsorship proposals using **text** and **image** modalities for brand partners via **Gemini Enterprise**

Founding Software Engineer

June 2025 – August 2025

EVAL Gaming Inc. | Keller Center eLab Startup Accelerator

Princeton, NJ

- Bootstrapped a **Next.js** recruiting platform connecting esports prospects with collegiate programs through player analytics, coach discovery, and league-management tools supporting enterprise and consumer accounts
- Built a player-rating and discovery engine in **FastAPI** through reverse engineering VALORANT, Smash Ultimate, and Rocket League APIs and game clients to serve data to and from **20+ organizations** and **300+ athletes**

Associate Head of Web Development

February 2025 – December 2025

The Daily Princetonian

Princeton, NJ

- Developed and designed engaging multimedia projects in **Svelte** and **React** for The Daily Princetonian's **90,000** weekly readers
- Led a cross-functional team of **10** across technical, editorial, and design divisions to **inform and scaffold infrastructure** and **stack** decisions to translate journalistic visions into dynamic digital experiences, ensuring alignment with organizational goals

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Go, Java, C, C#, SQL, React, Bash, Nix, HCL

Technologies: Linux, Next.js, TanStack Start, FastAPI, Express, Terraform, Vercel, AWS, GCP, Kubernetes, MongoDB

AI: Claude Code, Codex, cmux, Herdr, tmux, Composio, Langfuse, Daytona, GKE Sandbox

Certifications: Cisco Networking & CyberSecurity, Microsoft Azure AI, Google Data Analytics, Network Automation + 27 more

PROJECTS

Harness 🔗 | *TanStack Start, FastAPI, Convex, Daytona, Redis, Agent Client Protocol (ACP)*

January 2026 – Present

- Built a custom **FastAPI** bridge over **Agent Client Protocol** that runs user-provided coding agents (CC/Codex) in isolated **Linux** sandboxes, streams tool calls and terminal output to the browser, and brokers MCP Servers across user configured profiles
- Engineered live viewer/editor collaboration with **SSE** fan-out over **Redis Streams**, late-join replay, and permission-aware event redaction, enabling users to watch, co-drive, rewind, and fork others' agent sessions without exposing the owner's credentials

herdr-telemetry 🔗 ★ 8 — published herdr marketplace plugin for customizable agent telemetry

July 2026

Sower 🔗 — Task automation system based on a DFA, handles task ingestion, queuing, fulfillment, + channel connectors

2026

ZBot — **Discord.py** bot for Wynnncraft API monitoring, paging, and guild management system for **300+ users**

2019–2022

Awards: 2025 Qualcomm AI Hackathon Honor, COSCON Honor, 2026 New Jersey Press Foundation Awards: Web (1st)