

Anshul Saha

413-472-9028 | anshulsaha@umass.edu | [linkedin.com/in/anshulsaha](https://www.linkedin.com/in/anshulsaha) | github.com/sheldor1510

EDUCATION

University of Massachusetts Amherst

Bachelor of Science in Computer Science and Mathematics

Expected Graduation: May 2026

GPA: 3.93/4

Relevant Coursework

Data Structures, Algorithms, Computer Graphics, Artificial Intelligence, Database Management, Software Development

TECHNICAL SKILLS

Languages: JavaScript, Python, Typescript, HTML/CSS, PHP, Dart, SQL, Java, Rust, Go, C

Frameworks: React.js, AngularJS, Node.js, React Native, Flutter, Flask, Django, REST APIs

Databases: MongoDB, MySQL, PostgreSQL, Redis

Tools: Git, Google Cloud, Kubernetes, Docker, Bash, Linux, AWS, Agile, Source Code, Open Source, CI/CD

EXPERIENCE

Software Engineer Intern

May 2025 – Dec 2025

xAI/X (formerly Twitter)

Palo Alto, CA

- Owned and shipped core production infrastructure for **X Money** and **Colossus 2 (the world's first gigawatt AI datacenter)**, operating across **15+ on-prem data centers**, **multi-cluster Kubernetes**, and systems supporting **500K+** daily transactions.
- Built hardened, minimal configuration-management pipelines from **bare metal to production** for identity, authentication, metrics, TLS, and databases, landing **120+ production revisions** and enabling **PostgreSQL support** for internal platforms.
- Drove platform-level security and observability by enforcing **hardware-backed MFA**, exporting **Prometheus-native metrics**, simplifying network egress controls, and leading **Python 3.10 migrations** across widely used infrastructure tooling.
- Unblocked rapid cluster expansion for **Colossus 2** by owning **GPU diagnostics**, **node health checks**, **firmware and driver upgrades**, and **boot-path optimizations**, reducing reboot times by **4–6 minutes** and accelerating rack-level bring-up across data centers.

Software Engineer Intern

May 2024 – Feb 2025

Red Hat

Boston, MA

- Worked with Red Hat's US Research division on Elastic Secure Infrastructure, an **OpenStack** Ironic component, and contributed to an **open-source bare metal machine sharing framework** for owner-lessee use cases.
- Created and maintained product technical specification documents, developing an **User Interface** for ESI in **AngularJS**, and contributing to bug fixes and new features across ESI-based services written in **Python**.
- Developed a **network switch driver** for CloudLab, a NSF-funded scientific infrastructure for transformative research in **cloud computing**, to work on top of ESI, allowing for dynamic movement of shared hardware on demand, helping **13000+ researchers** across the US to access cloud resources more efficiently.

Software Engineer

Mar 2024 – Dec 2024

Sync

New York, NY

- Founding Engineer at Sync, a startup backed by **Antler**, specializing in AI-powered personalized care plans, hyper-personalized health alerts, and remote health monitoring.
- Engineering the **mobile app (iOS)** using **React Native** for frontend and **Node.js** for backend operations; utilizing **Firebase** and **MongoDB** to optimize data handling and user interactions.
- Leading the technical strategy and product development by managing the app-based services including the **REST API**, **fine-tuned ML models**, **RAG models**, and ensuring deliverables are completed on time and meet quality standards.

Junior Systems Administrator

Sep 2022 – Present

UMass IT Research Computing

Amherst, MA

- Managing UMass's **high-performance research computing** at Holyoke-based data center (MGHPCC), ensuring smooth operation and supporting **200+ researchers**.
- Developed full-stack cluster websites and management tools in **PHP**, improving user experience and efficiency by resolving **20+ issues** and being the key contributor to **3 major releases**.

PROJECTS

Know Your Traveller | Dart, Flutter, Azure

- Built a custom API-backed digital health passport mobile app for post-COVID travel.
- Implemented RT-PCR tests validation using **Azure Cognitive Services** and Health Analytics on **Node.js** and **Flutter**.
- Selected as National Finalist at Microsoft Imagine Cup 2021, **Top 30 out of 1000+ teams**.

VSCode DMs | Typescript, Svelte, socket.io

- Launched realtime **socket.io** direct messages & group chats **VSCode plugin**, augmenting developer collaboration.
- Top 15** Products of the Day, **Product Hunt** (**800+ installs**).

UPlay! | Node.js, Express.js, Javascript, Mapbox API

- Developed a web-based app for busy college students to find people in real-time to play sports with around the campus.
- Won the Best Beginner Software Hack at HackUMass X 2022.