Anshul Saha

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EDUCATION

University of Massachusetts Amherst — Expected Graduation: May 2026
Bachelor of Science in Computer Science and Mathematics — *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

Incoming Software Engineer Intern — May 2025 – Aug 2025
X (formerly Twitter) — *Palo Alto, CA*
- Incoming SWE intern on the Core Infrastructure team for Summer 2025.

Software Engineer Intern — May 2024 – Feb 2025
Red Hat — *Boston, MA*
- Working 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.
- Creating and maintaining 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**.
- Developing 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.

Project Lead and Software Developer — Oct 2022 – May 2024
BUILD UMass — *Amherst, MA*
- Provided **technological solutions to non-profits** and local businesses through pro-bono consulting engagements.
- Led a team of 6 developers to build a revamped website for Homework House, a non-profit that focuses on low-literacy improvement in Holyoke, MA, implementing the frontend in **React.js** and the backend in **Node.js**.
- Spearheaded development of a menstrual period tracker app consisting of an **authentication system** and a **calendar-based tracker** for Small Acts for Sustainability (an NGO) using **React Native**, **Javascript**, **Firebase**, and **MongoDB**.
- The pilot version of the app is currently being used by over **500+ women** in rural parts of India.

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.