

SHAMITH PASULA

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EDUCATION

University of California, Berkeley

May 2025

Bachelor of Arts in Computer Science

GPA: 3.87/4.00

Coursework: Operating Systems, Comp. Architecture, Algorithms, Databases, Internet, Compilers, Security, Microfabrication

WORK EXPERIENCE

PALANTIR

New York, NY

Software Engineer Intern

May 2024 - August 2024

- Engineered priority task scheduler in **Java** to improve Cassandra database compaction concurrency from 16 to 100 threads.
- Integrated continuous JFR diagnostics into Cassandra through HTTP server, enabling faster debugging of large clusters.
- Developed solution to validate resource quotas for **Kubernetes** and Openshift deployments, decreasing cost by 10%.

ZIPRECRUITER

Santa Monica, CA

Software Engineer Intern

May 2023 - August 2023

- Implemented **Express.js** server for serving banners across 500+ **React.js** and **Next.js** frontends through gRPC and HTTP.
- Strengthened SEO and UX by reducing page load times by 40% with server-side rendering and static site generation.
- Streamlined the process of adding new banners to a 1 file change, enhancing productivity within the development team.

ATLASSIAN

Berkeley, CA

Software Developer Consultant

August 2022 - December 2022

- Constructed NLP **machine learning** model hosted on **AWS EC2** to group 1000s of Jira issues by similarity.
- Deployed frontend using **React.js**-like library and implemented **OAuth** flow between frontend and NLP microservice.
- Headed team of 5 developers to reduce time-to-resolution for issues by 25%, leveraging agile methodologies and **CI/CD**.

ENVESTNET

San Mateo, CA

Software Engineer Intern

June 2022 - September 2022

- Designed embedded finance solution to improve underprivileged communities' financial health through microlearning.
- Customized 30+ UI pages for Envestnet portal with **React.js**, utilizing **Redux** and **Redux Saga** for state management.
- Assembled full suite of end-to-end testing and integrated them into **CI/CD** to improve development for ~1000 employees.

ASSISTIVE TECHNOLOGY DEVELOPMENT, INC.

Berkeley, CA

Software Engineer Intern

January 2022 - May 2022

- Fabricated cost-effective pneumatic device to treat lockjaw, collaborating with 6 engineers at a SkyDeck-backed company.
- Developed **Python** GUI and **C++** software for **Arduino** microcontroller to ensure a smooth, user-friendly experience.

PROJECTS

THE COUNTER

February 2025 - March 2025

- Launched a global counter game utilizing **Next.js**, **Go**, **Postgres**, **Redis**, and **WebSockets** that updates in real time.
- Integrated Stripe and Paypal APIs to pay out prizes for users at top of leaderboard, authenticated with Google and GitHub.

MAPLE

December 2024 - January 2025

- Constructed Chrome extension with **JavaScript** and **MySQL** that automatically searches for and applies the best promo codes at checkout without taking money from affiliate links.

ORGANIZATIONS

CS 162 OPERATING SYSTEMS - Tutor → TA

August 2024 - Present

- Mentored 30+ students, added new kernel features with test cases to **PintOS**, and debugged C and Rust assignments.
- Developed **full-stack web app** to track attendance through periodically changing QR codes utilizing **Next.js** and **MySQL**.

PLEXTECH - Instructor → Project Manager → Treasurer → President

January 2022 - December 2024

- Pioneered **full-stack web app** to process \$70k+ of expenses, reducing 6 month process to 1 week utilizing **Flask & React.js**.
- Driving web dev education and technology consulting NPO with \$100k annual revenue and 50+ members.

SKILLS

Languages: Python, C/C++, Java, JavaScript, Rust, Go, x86, RISC-V, Verilog, HTML/CSS, SQL, SwiftUI, Kotlin

Technologies: Kubernetes, AWS EC2, PostgreSQL, MongoDB, Cassandra, Redis, TensorFlow, Flask, React.js, Next.js