

Surendra Jammishetti

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EDUCATION

University of California, Santa Cruz

GPA 3.97

Bachelor of Science in Computer Engineering

Aug. 2023 – Dec. 2025

Relevant Coursework

Data Structures and Algorithms, Computer Systems and C Programming, Logic Design with Verilog, Discrete Math, Linear Algebra

EXPERIENCE

Lead Software Engineer

March 2024 – Present

ConnectifyAI | Go, Python, Typescript, PostgreSQL, Docker

Santa Cruz, CA

- Leading a team of **10** Undergrads and masters students, making important descisions such as deciding the tech stack, and managing the Gitlab Repository.
- Utilizing Go and PostgreSQL to create a performant REST API for our services
- Learned Docker and GitLab Runner to automate backend deployments.
- Working with Professor Marinescu to research viable, performant methods to chain multiple AI/ML models.

Software Engineering Intern

June 2024 – Aug. 2024

LightLinks | Embedded C Programming, eBPF, XDP, Kernel Programming, Networking

Santa Cruz, CA

- Engineering a Multi-Device system to facilitate a light-based network protocol
- Utilizing existing kernel frameworks to exand upon and satisfy the needs of the project.
- Implemented and optimized eBPF programs for network performance monitoring and enhancement

Artificial Intelligence Researcher

Nov. 2023 – Mar. 2024

ACM AI Research Lab | PyTorch, RAG, Kubernetes, Hugging Face

Santa Cruz, CA

- Created a performance analysis pipeline to quantify the effectiveness of using different latent spaces to find similarities between code and english
- Took the lead in finding a problem space for a group of 5 people to investigate.
- Developed a rudimentary RAG to ascertain the quality of responses with different model architectures.

PROJECTS

Term2Term | *Rust, Go, PostgreSQL, Docker*

June 2024 – Present

- Programming a Rust TUI client capable of sending encrypted messages to other clients.
- Developing a Go server to store encrypted messages in database and direct messages between clients.
- Utilizing gRPC for efficient type-safe communication across clients and server.
- Learning Peer-to-Peer communication to integrate into the client for complete user privacy.

CoupledCats | *Rust, gRPC,*

August 2024 – Present

- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, Rust, Go, HTML/CSS

Frameworks: SvelteKit, Nuxt, React, Node.js, Django, Material-UI

Developer Tools: Arch Linux, NeoVim, Git, Docker, Kubernetes, Vercel, PlanetScale, Google Cloud Platform, VS Code, IntelliJ

Libraries: PyTorch, NumPy, Matplotlib