Surendra Jammishetti

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EDUCATION

University of California, Santa Cruz **GPA 4.00**
Bachelor of Science in Computer Engineering *Aug. 2023 – June 2026*

Relavent Coursework

Linear Algebra, Discrete Mathematics, Physics: Kinematics, Waves, Optics, Computer Systems and C Programming

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 2020 – 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

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