Surendra Jammishetti

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EDUCATION

University of California, Santa Cruz · Santa Cruz, CA
Bachelor's of Science, Computer Engineering, concentration: Systems Programming · *June 2023 — June 2026*

- Cumulative GPA: 3.9/4.0 | Dean's List
- Relevant Coursework: Data Structures, Program Development, Microprocessors, Abstract Algebra I: Groups and Rings, Linear Algebra, Discrete Mathematics, Multivariable & Single Variable Calculus, Principles and Practice of Comp Sci

WORK EXPERIENCE

Operating Systems Security Researcher · Sep. 2024 — Present
Center for Research in Systems and Storage · *Santa Cruz, CA*

- Responsible for implementing the security primitives for a novel research operating system
- Working with Professor Owen Arden to integrate Decentralized Information Flow Control into OS kernel
- Reading papers in the field to design core security primitives with high efficiency

Lead Software Engineer · March 2024 — Sep. 2024
ConnectifyAI · *Santa Cruz, CA*

- Leading a team of 10 Undergrads and masters students, making important decisions 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 · *Santa Cruz, CA*

- Engineered a Multi-Device system to facilitate a light-based network protocol
- Utilized existing kernel frameworks, such as eBPF and XDP to implement project specifications
- Lead the charge in migrating legacy C codebase to Rust for improved developer experience and reliability
- Set up custom GitHub Actions runner to facilitate the building and testing of embedded networking software

PROJECTS

Maintainer, Hyperschedule (hyperschedule.io) · Nov 2023 — Present

- Maintain open-source scheduler used by 7000+ users at the Claremont Consortium with TypeScript, React and MongoDB
  - ‣ Manage PR reviews, bug fixes, and coordinate with college for releasing scheduling data and over $1500 of yearly funding
- Ensure 99.99% uptime during peak loads of 1M daily requests during course registration through redundant servers

EXTRACURRICULAR ACTIVITIES

Capture The Flag Competitions · Jan 2021 — Present

- Founder of Les Amateurs (amateurs.team), currently ranked #4 US, #33 global on CTFTime (2023: #4 US, #42 global)
- Organized AmateursCTF 2023 and 2024, with 1000+ teams solving at least one challenge and $2000+ in cash prizes
  - ‣ Scaled infrastructure using GCP, Digital Ocean with Kubernetes and Docker; deployed custom software on fly.io
- Qualified for DEFCON CTF 32 and CSAW CTF 2023, two of the most prestigious cybersecurity competitions globally

SKILLS

- **Programming Languages**: JavaScript, Python, C/C++, HTML/CSS, Java, Bash, R, Flutter, Dart
- **Technologies**: React, Astro, Svelte, Tailwind CSS, Git, UNIX, Docker, Caddy, NGINX, Google Cloud Platform