

Nick Carboni

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EDUCATION | California Polytechnic State University, San Luis Obispo

Bachelor of Science in Computer Science

Expected June 2027

- Cumulative GPA: 3.97
- Dean's List recipient 3x (Fall 2023, Winter 2024, Spring 2024)
- President's List: 2023 - 2024 School Year

Relevant Coursework: Data Structures, Intro to Computer Organization, Project-Based Object Oriented Programming and Design, Discrete Structures, Systems Programming

TECHNICAL SKILLS

Programming Languages: Java, Python, C, HTML, CSS, RISC-V Assembly

Systems & Environments Proficiency: Text-based code editors (Vim, Emacs), RISC-V architecture simulators, Unix/Linux Systems (navigation, scripting, file management)

Applications: JetBrains IDEs, Adobe Suite, Microsoft Excel, Word, PowerPoint, Solidworks

PROJECTS

Poly Exchange Website Project - SLO Hacks Hackathon

- Collaborated with a four-person team to design and develop a fully-fledged online marketplace for Cal Poly students
- Demonstrated Full-Stack development capabilities
- Utilizes Python via the Flask framework to handle backend
- Fully documented and presented to a panel of judges made up of Cal Poly faculty

Inode-based Unix File System Simulator

- Designed and implemented a Unix file system simulator using inodes to manage file metadata
- Simulated file creation, deletion, and organization in a hierarchical directory structure
- Developed inode structure for efficient file management and space allocation
- Thoroughly tested to ensure proper behavior and no memory leaks across all edge cases

Modular Multithreaded Web Server in C

- Designed a multithreaded web server that handles HTTP requests using C and POSIX sockets
- Implemented support for basic HTTP methods with a modular design allowing for easy extension to other methods
- Manages concurrent client connections through pthreads, creating dedicated threads for each request
- Utilizes proper request parsing, file serving, and response generation
- Ensured safe handling of malformed requests and unsupported HTTP methods

LEADERSHIP AND WORK EXPERIENCE

Service Advocate, Trainer - Target

Fall 2022 - Present

- Facilitated customer service through use of communication and time management
- Trained and mentored numerous new team members, providing guidance on store operations and service standards--ensuring smooth integration into our team

Sigma Phi Delta Professional Engineering Fraternity

Fall 2023 - Present

- Volunteered at fundraising and community service events
- Active at all chapter meetings, and involved with planning the future of the fraternity