

ANTHONY WHITE

California | awhitecsdev@gmail.com

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Computer Science student focused on embedded systems, computer architecture, systems programming, and hardware/software integration.

EDUCATION

California State University, Stanislaus - B.S. Computer Science Expected 2027

Relevant Coursework: Data Structures & Algorithms; Assembly Language & Computer Architecture; Programming II; Computer Organization (in progress); Cybersecurity Fundamentals (in progress); Introduction to Unix

TECHNICAL SKILLS

Languages: C++, Java, JavaScript, Python, MATLAB

Embedded & Hardware: ESP32, Arduino Mega, MCP23017, SPI, I2C, TFT displays

Systems & Infrastructure: Linux/Unix, Git, SSH, Nginx, Vim

Web: HTML, CSS, JavaScript

PROJECTS

CAPY - Embedded Handheld Computing Platform | C++, ESP32, Arduino Mega, MCP23017, SPI, I2C

- Designed and iteratively developed a handheld computing platform, evolving from an Arduino Mega proof of concept to a compact ESP32 architecture.
- Redesigned the input subsystem around a six-button D-pad/A/B interface and integrated an MCP23017 I/O expander to overcome GPIO constraints.
- Integrated a 320x240 TFT, physical controls, audio, portable power, Wi-Fi/Bluetooth, and a custom enclosure while documenting hardware and architectural tradeoffs.

Data Workbench - Browser-Based Data Analysis Tool | JavaScript, HTML, CSS

- Expanded a data-structures course project into an interactive application for importing, inspecting, searching, editing, profiling, and exporting CSV/JSON datasets.
- Implemented numeric profiling and search-performance benchmarking and validated the application against datasets containing tens of thousands of records.

AnthonyCS - Self-Hosted Portfolio & Engineering Platform | Linux, Nginx, HTML, CSS, JavaScript, Git

- Built and independently maintain anthonycs.dev, hosting technical projects, interactive applications, and the LearnCS technical learning platform.
- Administer an Ubuntu/Nginx server with HTTPS, SSH key authentication, firewall rules, Fail2ban, deployment, and ongoing maintenance.

EXPERIENCE

Covenant Construction - Construction Assistant / Carpenter Apprentice 2018-2026

Manteca, CA

- Supported residential and commercial construction, maintenance, demolition, framing, material preparation, and job-site organization in environments requiring precision, safety, and practical problem solving.

Gould Tax Service - Landscape Maintenance Worker 2024-Present

Manteca, CA

- Independently maintain grounds and property, operate landscaping equipment, and manage recurring maintenance requirements to professional standards.