

ARYIAN JONES

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EDUCATION

University of San Francisco

San Francisco, CA

Bachelor of Science Major in Computer Science

June 2021 - December 2025

Relevant Courses: C & Systems Programming, Data Structures and Algorithms, Full-Stack Web Development, Software Development, Computer Architecture

PROJECTS

Wordle (Java)

- Recreated the popular *New York Times* game "Wordle" for the terminal, focusing on smooth gameplay, accurate word validation, and a scoring system.

Web Crawler (Go, SQLite)

- Built a mock web crawler in Go to simulate web scraping by recursively exploring pages, parsing links, and retrieving content. Integrated *httptest* for testing, handled dynamic content and errors and followed SaaS best practices, including code reviews.

RISC-V Emulator (C)

- Designed and implemented a RISC-V emulator in C to simulate the architecture and execute machine-level instructions. Emphasized accurate instruction decoding, memory management, and register operations.

Cache Simulation (C)

- Developed simulations for various cache architectures, including direct-mapped, fully associative, and N-way set-associative caches with 4-byte block sizes. Implemented LRU policies and cache hit/miss detection and addressed translation issues.

Career Development Web Application (React, Node.js, MongoDB, Express, Python, OpenAI, Heroku)

- Frontend Engineer for an emerging career development startup. Developing a dynamic web application using React and Tailwind CSS for a sleek, responsive user experience. Managed user data with MongoDB, seamlessly integrated it through a Node.js backend and designed and implemented custom Python APIs to power frontend AI interactions. Collaborating closely with the UI Designer to ensure a cohesive, intuitive, and simple interface, using Heroku for hosting. This project is ongoing.

Weekly Calendar (React, Vite, Tailwind, Vercel)

- I created a responsive calendar webpage with React/Tailwind on the front end and Vercel as the hosting service. Allowing my family and friends to see what I am doing weekly.

Personal Website (React, Vite, Tailwind, Vercel)

- Created a responsive personal website with React/Tailwind in the front end and Vercel as the hosting service.

VOLUNTEER

Mentor Collective — Mentor

March 2024 – May 2024

- Mentored a first-year Computer Science student, offering guidance on networking, participating in CS-related events, and tackling common academic challenges.

SKILLS

Java, Python, C/C#, HTML, CSS, JavaScript, React, Go, MySQL, SQLite, MongoDB, RISC-V, Adobe, MS Office, Teamwork, Communication, Git, Git Hub, Docker, Angular, jQuery, TypeScript, Circuits, Data Structures and Algorithms