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

EXPERIENCE

Path, *Frontend Engineer Intern*   **January 2025 - December 2025**
(React, Node.js, MongoDB, Express, Python, OpenAI, Heroku, Firebase, Selenium)
- Frontend Engineer for an emerging career development startup. Developed 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/Node APIs to power front-end interactions. Collaborating closely with the UI Designer to ensure a cohesive, intuitive, and simple interface, using Heroku for hosting and Selenium for front-end development testing.

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.

University LLM Curation (Go, ChromaDB, OpenAI)
- Created an LLM-powered system to answer user questions about upcoming university courses with precision and context, streamlining the registration process.

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, SQLite, PHP, UI/UX Design, Selenium, MongoDB, RISC-V, Firebase, MS Office, Teamwork, Communication, Git, Docker, Angular, jQuery, Circuits, Data Structures and Algorithms, Figma, Adobe After Effects, Adobe Photoshop, Pro Tools