Kai Campbell

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EDUCATION

University of California, Irvine — Irvine, CA
Bachelor of Science in Computer Science — *Sept. 2020 - June 2024*

Relevant Coursework

Artificial Intelligence, Machine Learning, Database Management (DBMS), Data Structures and Algorithms, Information Retrieval, Computer Networks, Operating Systems, Software Design and Architecture, Project Management, Python Programming, Java Programming, C++ Programming, C Programming

WORK EXPERIENCE

Stealth Mode AI Startup — Remote
AI and Software Engineer Intern — *July 2024 - Oct. 2024*

- Increased chatbot accuracy to over 90% by leveraging **Langchain** and various **Prompt Engineering** techniques, driving a **20% improvement** in overall performance.
- Engineered 15+ dynamic reports using SQL queries on **PostgreSQL** data, reducing report preview and download times to **under 10 seconds**.
- Implemented responsive front-end components across multiple web pages using **React** and **TypeScript**, ensuring robust type safety and an intuitive user interface.

PROJECTS

- **Fabflix** — *Java, Javascript, MySQL, AWS, Tomcat, Maven* — *April 2024 - June 2024*
  - Built a movie e-commerce platform with a streamlined architecture using Tomcat, Maven, and **MySQL**, enabling users to search an extensive film catalog **within 500ms**.
  - Deployed the application on an **AWS-based Kubernetes cluster** using **Docker containers** and employed JMeter to identify performance bottlenecks and threading issues, successfully stress-testing the system with over **100 concurrent requests**.

- **ChatGPT Student Chatbot** — *TypeScript, Firebase, React, Node.js* — *Sept. 2023 - Dec. 2023*
  - Created a web application to support student-led discussions by integrating the **OpenAI API** and deploying an interactive chatbot.
  - Enhanced chatbot messages by utilizing **AI Agents** for participation, feedback, and topic transitions, resulting in more **directed** and **focused interactions**.
  - Utilized the **Scrum Framework** as part of an Agile project management approach with sprint boards and weekly stand-ups, fostering iterative development and enhancing team collaboration.

- **Messenger** — *Python, PyNaCl, Tkinter* — *Jan. 2023 - March 2023*
  - Developed a messaging application with a Graphical User Interface using **Tkinter**, which connects to a secure server through **Network Sockets** for seamless communication and data exchange.
  - Improved message content by pulling real-world data from **OpenWeather** and **Spotify APIs**.
  - Used **NaCl** (Networking and Encryption Library) to encrypt messages with private and public keys, enhancing security and reliability.

SKILLS

Python, Java, C++, C, HTML, CSS, JavaScript, TypeScript, Node.js, Next.js, React, AWS, Vercel, REST API, TailwindCSS, Bootstrap, MIPS Assembly, Git/Github, Tomcat, Maven, MySQL, PostgreSQL, Firebase, Supabase, Docker, Kubernetes, Jira, PowerShell, Visual Studio Code, Microsoft Office

INVOLVEMENT

Tomo No Kai (Japanese Cultural Club) — Irvine, CA
Family Lead & Historian Intern — *Sept. 2021 - June 2024*