

Aidan Williamson

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EDUCATION

University of California, Santa Cruz, Baskin School of Engineering **October 2020 - December 2024**
Bachelor of Science in Computer Engineering: Systems Programming Cumulative GPA: 3.6/4.0
Relevant Coursework: Data Structures & Algorithms, Intro to Software Engineering, Embedded Systems Design

SKILLS

Languages & Frameworks: C/C++, Python, JavaScript, TypeScript, Node.js, React, Django, Swift, HTML/CSS

Tools & Platforms: MongoDB, AWS, Git, Linux, VIM, XCode, VSCode, GitHub, Figma

Concepts & Methodologies: Data Structures & Algorithms, OOP, Computer Architecture, Agile, Scrum

EXPERIENCE

Software Engineer Intern, TENKI-JAPAN - Tokyo, Japan **May 2024 - August 2024**

- Developed an **AI-driven** application using **Node.js**, **React**, **CSS**, and **OpenAI API** to optimize e-commerce product listings on **Rakuten's platform**, improving **search visibility and user engagement**.
- Implemented **keyword optimization algorithms** and leveraged **OpenAI's GPT model** to analyze competitor data and suggest **SEO-friendly titles, descriptions, and keywords** to improve product discoverability.
- Integrated **MongoDB** for **real-time data storage and retrieval**, enabling instant updates to product listings based on user preferences and product categories.
- Worked closely with cross-functional teams to ensure smooth integration, high-performance functionality, and user experience, which resulted in **increased listing engagement** and higher conversion rates.

PROJECTS

Tassel Alumni Website (www.slugmatch.app) - UCSC Alumni Association **September 2024 - Present**

- Developed **Tassel**, a platform using **React**, **JavaScript** and **Material UI** that enables alumni to connect, post, and apply for volunteer opportunities at UC Santa Cruz.
- Deployed and managed scalable cloud infrastructure with **AWS Amplify**, ensuring secure and efficient **user authentication** for the platform.
- Led **Agile processes** as Scrum Master, facilitating sprints to ensure timely delivery and project alignment.

Jam Circle, Full-Stack Developer **January 2024 - March 2024**

- Led a team of 5 developers to build **Jam Circle**, a web application integrating **Spotify API** to allow users to view personalized music listening statistics and share insights with friends.
- Developed the application using **Django** for the backend, **PostgreSQL** for data storage, and **React**, **JavaScript** and **TailwindCSS** for the frontend, ensuring a seamless user experience and efficient data retrieval.
- Utilized **Agile** methodologies to manage the project, conducting sprint planning, daily standups, and retrospectives to ensure on-time delivery and smooth collaboration.

Multi-Threaded HTTP Server, Software Engineer **March 2023**

- Developed a **multi-threaded HTTP server** in **C**, implementing a **thread-safe queue** to efficiently handle concurrent client requests.
- Gained hands-on experience in **socket programming**, **TCP connections**, **HTTP messaging**, and **thread synchronization**, improving network and systems programming expertise.
- Tested server performance under high loads, ensuring **efficient request handling** and **minimal latency**.

Photography Portfolio Website (www.ajwphotography.com), Full-Stack Developer **June 2024**

- Built a **responsive photography portfolio website** using **Node.js**, **React.js**, **Tailwind CSS**, **TypeScript**, and **JavaScript** to showcase professional work.
- Designed and implemented **dynamic content management**, optimizing performance for seamless user experience across **desktop and mobile devices**.