

GEN TAMADA

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EDUCATION

University of California, Santa Barbara (UCSB)

Cumulative GPA: 3.98

Master of Science (M.S.) Computer Science Candidate (Dean's Honors, BS/MS Program)

Expected June 2026

Relevant Courses: Data Structure & Algorithms, Advanced Application Programming, Computer Networking, Computer Security

INTERNSHIP EXPERIENCE

RACELab, UC Santa Barbara (sites.cs.ucsb.edu/~ckrintz/racelab.html)

Oct 2024 - Apr 2025

Research Assistant

- Refining the API and integrating more functionalities using **C** and **C++** for easier deployment and more complex calculations to happen in DaaS dataflow **IoT** applications
- Assisting PhD mentor in **benchmarking** and acquiring ground truth data on power and time usage on different **edge devices**
- Researching **Device-as-a-Service (DaaS)**, a computing method similar to **Function-as-a-Service (FaaS)** that is specifically designed for IoT and edge devices, that is more efficient and persistent than traditional methods

Aquimo LLC., Remote (tinyurl.com/aquimo-light)

June 2023 - September 2023

Software Engineer Intern

- Worked in development team in creating light-weight mobile games and apps hosted online using **Cocos Game Creator**
- Standardized a method in **Javascript** for users to access any cocos games on their home screen without using app stores
- Optimized the **Javascript** URI parsing algorithms to allow developers with little coding experience to use **query strings**
- Prepared the **Production QA** to be tested on the Pre-season football game between Chicago Bears and Indianapolis Colts

SOAR Foundation, Remote (gen8009.wixsite.com/soar-foundation)

June 2022 - September 2022

Software Engineer Intern

- Created a new website for SOAR in 2 weeks using the platform of **Wix**; eliminated unnecessary components of the original site, emphasized the important information, and simplified the **Web User Interface** for the users
- Proposed the plan for replacing the original **Wordpress** site of SOAR Foundation to one powered by **React.js**
- Listed the pros and cons of the overall switch and the necessary procedures needed to achieve the new **React.js** site

PROJECTS

GachoRide, UCSB Advanced Application Programming Course (tinyurl.com/gauchoride)

March 2024 - June 2024

Full-Stack Developer

- Improved upon legacy code for GachoRide, an application intended for students in need to schedule rides within UCSB
- Initialized and connected **PostgreSQL** database, and used SQL commands to control and modify the contents to save user data
- Implemented scheduler page for weekly recurring events, and created **Storybook** documentation for all new components
- Created tests that passes **coverage and mutation testing** for both **React.js** frontend (**Stryker**) and **Spring Boot** backend (**PiTest**), and also created **integration and end-to-end tests** for the application

GachoCourses, UCSB Data Science Club (github.com/data-science-ucsb/gauchocourses)

February 2023 - Present

Full-Stack Developer

- Collaborated in implementing a solution to make the course selection process of UCSB simpler and more efficient
- Employed the **Vue.js** framework for frontend and the **Spring Boot (Java)** platform for handling backend queries and API calls
- Utilized development techniques such as **Agile Development** and **Kanban** boards to manage and make the process more efficient
- Sponsored by UCSB, and have officially received the API keys that can access course contents and parameters of the University

SKILLS

- Technologies:** Javascript, HTML/CSS, Java, Spring Boot, C, C++, SQL, PostgreSQL, MIPS, Linux, Prompt Engineering
- Python libraries:** Django, Pytest, Numpy, Scipy, PyTorch, TensorFlow, Streamlit
- Javascript Related:** Jest testing, Node.js, React.js, Next.js, React Native, Vue.js
- Languages:** Fluent in English, Chinese, and Japanese