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 (BS/MS Program)   **Expected June 2026**

Bachelor of Science (B.S.) Computer Science Candidate (Dean's Honors)   **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 - Present

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

GauchoRide, UCSB Advanced Application Programming Course (tinyurl.com/gauchoride)   March 2024 - June 2024

Full-Stack Developer

- Improved upon legacy code for GauchoRide, 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

GauchoCourses, 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, Librosa, Streamlit
- **Javascript Related**: Jest testing, Node.js, React.js, Next.js, React Native, Vue.js
- **Languages:** Fluent in English, Chinese, and Japanese