

# 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, Operating Systems, Computer Networking, Computer Security, Distributed Systems

## EXPERIENCES

RACELab, UC Santa Barbara ([sites.cs.ucsb.edu/~ckrintz/racelab.html](https://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](https://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](https://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

Refract, UCSB Data Science Club ([github.com/heyysus/refract](https://github.com/heyysus/refract))

January 2024 - May 2024

Machine Learning Model Engineer

- Devised a ML solution to cloak facial images to mitigate risks associated with unauthorized use in DeepFake creation
- Implemented model in **PyTorch** and fine tuned the model after its five iterations to improve the result of the face cloaking
- Utilized pre-trained models like **Inception Resnet V1**, **MTCNN**, and **LPIPS** to manipulate image embeddings and introduce undetectable alterations that prevent misuse in machine learning applications
- Engineered custom loss function to maintain a balance between image similarity and cloak strength

KOS, UCSB Operating Systems Course ([tinyurl.com/cs170kos](https://tinyurl.com/cs170kos))

January 2024 - March 2024

- Developed a fully functional operating system in C, designed to run on a **MIPS R3000** 32-bit processor simulator
- Implemented core functionalities of **Linux** including process management commands such as fork, exec, pipe, and dup
- Engineered a **process scheduler** to manage **process control blocks (PCBs)**, effectively handling program registers, file descriptors, and child processes to support parallelism and resource management

## 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