

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 2025

Relevant Courses: Data Structure & Algorithms, Operating Systems, Computer Networking, Computer Security, System Architecture

INTERNSHIP EXPERIENCE

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

Refract, UCSB Data Science Club (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)

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

Noteblockit, UCSB Data Science Club (github.com/Ononymous/Noteblockit)

January 2022 - April 2023

Project Team Leader

- Invented a solution that allows an accurate conversion of any music file (wav file) into noteblock systems in Minecraft
- Researched and compared more than 10 different implementations of Music Source Separation using machine learning, and used Python libraries such as **Librosa** and **Numpy** in **Google Colab** for data manipulation and storage
- Implemented a recurrent neural network model in **PyTorch**, and trained 3 separate sets of parameters for bass, vocals, and drums
- Hosted the model on **Streamlit** Community Cloud; fine-tuned the model to fit the memory usage limit on **Streamlit**

SKILLS

- **Technologies:** React.js, React Native, Vue.js, Javascript, HTML/CSS, Spring Boot (Java), MIPS, C, C++, R
- **Python libraries:** Numpy, Scipy, PyTorch, TensorFlow, Librosa, Streamlit
- **Data related:** Firebase, Moralis database / hosting, Supabase
- **Languages:** Fluent in English, Chinese, and Japanese