GEN TAMADA

✉ gtamada@ucsb.edu 🔗 linkedin.com/in/gen-tamada ⭘ github.com/Ononymous 🖥 https://gentamada.me

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

EXPERIENCES

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

Refract, UCSB Data Science Club (github.com/heyyysus/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

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 and **Spring Boot** backend, and also created **integration and end-to-end tests** for the application

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