GEN TAMADA

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EDUCATION

University of California, Santa Barbara (UCSB) — Santa Barbara, CA
Bachelor of Science (B.S.) Computer Science Candidate — Expected June 2025
Third-year undergraduate (Taken Data Structures and Algorithms) — Cumulative GPA: 3.97
GitHub: https://github.com/Ononymous — Personal Portfolio: https://gentamada.me/

SKILLS

- React.js, React Native, Vue.js, Javascript, CSS, HTML, Java, MIPS Assembly, C++, R (Statistics), Cocos Game Creator
- Python: Numpy, Scipy, PyTorch, TensorFlow, Librosa, Streamlit
- Firebase, Moralis database / hosting, Supabase
- English (Native), Chinese (Native), Japanese (Native)

INTERNSHIP EXPERIENCE

Software Engineer Intern, Aquimo LLC., Remote — June 2023-Present

- Collaborated with experienced mentor in creating light-weight mobile games and apps hosted on websites, using Cocos Creator
- Responsible for implementing the LightShow, URI parameters, host UI, websocket broadcasting messages, parsing JSON file, synchronization between host and client-side, RNG generation of color patterns with seed
- Implemented an intuitive UI for the host to only press 1 button and the rest of the Lightshow to be automatic, in sequence
- Researched and standardized a method for user to access any web-mobile games on their home screen without using app stores, created a manual to use Add-to-Homescreen functionality on every Cocos Web Mobile project
- Discovered a solution to optimize the URI parsing algorithms to allow developers to more easily modify the query strings, increasing testing speed by reducing the need for whole-project-build for every small modification
- Devised a structure to compress 300 lines into 100 lines in json format, also easier to edit for people with no coding experience
- Familiarized with new tool, Cocos Creator, within 2 weeks, and designed a frontend prototype interface for game hosts

OTHER EXPERIENCE

Project Team Leader, UCSB Data Science Club, Santa Barbara, CA — September 2022-April 2023

- Invented a solution that allows an accurate conversion of any music file (wav file) into noteblock systems in Minecraft
- Researched more than 10 different solutions and implementations on the task of Music Source Separation using machine learning
- 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

Project Team Leader, Coders SB Club Project Series, Santa Barbara, CA — January 2023-June 2023

- Presented an idea that allows users to utilize their mobile devices as a radar to see thousands of planes around the world
- Researched and devised a mathematical algorithm to accurately calculate the 3d-relative-coordinates of any plane on Earth given the outputs of the mobile device sensors and GPS coordinates
- Distributed work between team of 4 to design an easy-to-use UI/UX and features that supports the main functionality
- Created the backend of the phone app deploying Supabase for storing and accessing user data

Project Backend Team Leader, Coders SB Club Project Series, Santa Barbara, CA — April 2022-June 2022

- Utilized Moralis as database to store organizations, funding projects, minting the projects' indivdual NFT using easy-minting
- Learned to utilize Moralis, a web 3.0 storage platform, for the transaction and donation function of the app
- Earned the title of 2nd place on the collaborative competition between the SB Blockchain club and Coders SB club

PROJECTS

- Aquimo Lightshow (2023): a lightweight web-mobile app that makes phones of sports fans create a lightshow in the stadium, used in NFL preseason game of Chicago Bears and Indianapolis Colts (https://tinyurl.com/aquimo-light)
- Noteblockit (2023): a machine learning model to easily generate Minecraft Noteblock music (https://tinyurl.com/noteblockit)
- AirNet (2023): phone app on React Native Expo framework, with Supabase for database (https://github.com/Ononymous/AirNet)
- New SOAR Foundation website (2022): powered by Wix website builder (https://gen8009.wixsite.com/soar-foundation)
- Cryptaid (2022): developed using React JS, hosted on Moralis, integrated MetaMask authentication (https://tinyurl.com/cryptaid)
- 30 Seconds (2022): created using React JS, integrated AssemblyAI speech-to-text tool (http://tinyurl.com/30-sec-interview)
- Fiesta (2021): built using React JS, hosted on Firebase (https://tinyurl.com/fiesta-ucsb)