Sam Edwards-Marsh

(831) 428-2276 ⋄ Felton, CA

sam.david.marsh@gmail.com ⋄ linkedin.com/in/sedwardsmarsh/ ⋄ www.samedwardsmarsh.com

WORK EXPERIENCE

Software Engineer Jan 2023 - Present
SN&N Electronics, Inc. *Morgan Hill, CA*

- Developing Android OS and Tkinter UIs for testing hardware.
- Developed an API for a 3-axis linear stage robot.
- Developed a CLI waveform validation tool.
- Contributed actively to previously open source projects for ultrasound technology.
- Working in a multifunctional team developing proof-of-concept applications.
- Adapting to client expectations to deliver products in a timely manner.

Applied Machine Learning Research Assistant 2021 - 2022
University of California Santa Cruz *Santa Cruz, CA*

- Created an ML pipeline to analyze time series weather data for leaf wetness & disease propagation.
- Worked alongside PhD Students in the UCSC Ag Tech team to improve ongoing projects in the lab.

PROJECTS

Guess Word Game https://apps.apple.com/us/app/sam-edwards-marsh/id6475566601 Designed a fast-paced word guessing iPhone game using SwiftUI.

DL Deforestation Detection https://deforestationdetector.com Created an ensemble transfer learning network to perform multi-label classification. Implemented a Docker container to utilize GPU acceleration which reduced training times greatly.

VST3 Delay Plug-In https://github.com/sedwardsmarsh/juce-circular-buffer A delay VST3 audio effect to demonstrate understanding of the JUCE framework.

Neural Synth https://github.com/sedwardsmarsh/neural-synth/tree/dev A tool used to program a software synthesizer to approximately recreate any sound.

SKILLS

Languages	Python 3, C, C++, Java, Bash
Frameworks	Tkinter, JUCE, Tensorflow, NumPy, Pandas, Android
Tools	Git, VS Code, Xcode, Docker, MS Office
Soft Skills	Patient Communicator, Friendly, Collaborative, Creative Problem Solver

EDUCATION

Bachelor of Computer Science, UCSC Jun 2022

EXTRA-CURRICULAR ACTIVITIES

- Member of UCSC Neurotech club 2019 - 2021
- Member of UCSC Santa Cruz AI club 2021
- Completed the 1st course of deeplearning.ai 2020