Sam Edwards-Marsh

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Work Experience

SN&N Electronics, Inc. – **Software Engineer**

Morgan Hill, CA

Jan 2023 – Present

• Developing Android OS, Arduino, STM32, Tkinter UIs for testing hardware.

• Developed an API for a 3-axis linear stage robot.

• Developed a CLI waveform validation tool.

• Contributed to 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.

University of California Santa Cruz – **Machine Learning Research Assistant**

Santa Cruz, CA

Mar 2021 – Jan 2022

• 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 iOS App App Store Link SwiftUI time based word guessing iPhone app.

DL Deforestation Detection deforestationdetector.com Created an ensemble transfer learning network for multi-label classification. Implemented a Docker container for GPU acceleration, reducing training time.

VST3 Delay Plug-In GitHub Repo A delay VST3 audio effect to demonstrate understanding of the JUCE framework.

Neural Synth GitHub Repo A tool to program a software synthesizer to approximately recreate any sound.

Skills

Languages: Python 3, Java, Swift, Bash, C, C++

Tools: Git, VSCode, Xcode, Microsoft 365 Office

Soft Skills: Creative Problem Solver, Patient Communicator, Friendly, Collaborative

Education

University of California, Santa Cruz — B.S. in Computer Science

Santa Cruz, CA

Sep 2019 – Jun 2022