Devin Mui

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EXPERIENCE

SORACOM Global, Inc., Menlo Park, CA — *Software Engineer Intern*

AUGUST 2019 - PRESENT

Build an IoT electric scooter to demonstrate SORACOM's cellular connectivity. Utilize AWS Lambda to create a serverless backend to communicate with SORACOM services using Node.js. Interface Xiaomi M365 scooter through Bluetooth with a cellular-connected Raspberry Pi using bluepy and Python to track scooter usage and to calculate surge pricing. Develop cross platform mobile apps using React Native. Write and publish technical articles on Hacker Noon and Hackster with professional video demonstrations to a targeted audience of electric scooter project managers and software engineers.

EPNomad Inc., Danville, CA — *Lead Software Engineer*

SEPTEMBER 2016 - APRIL 2017

Developed an image recognition API for clients. Learned to interface a C/C++ deep learning convolutional neural network to accept, train, and recognize Base64 encoded images through an Express.js server connected to MongoDB through Mongoose ODM. Developed Android and iOS mobile applications and API libraries using Java and Swift. Placed fourth in AngelHack's Global Demo Day and showcased in the documentary *Seed* directed by Andrew Wonder.

PROJECTS

Muicrowave — *SLO Hacks 2019*

Built a smart microwave out of an existing microwave. Learned to create Amazon Alexa skills and reverse engineer microwaves to inject commands to the circuit board input/output with a Qualcomm 410c Dragonboard and Amazon Alexa voice commands using Arduino, Python, and Node.js Express.js. Won Best IoT Hack and Best Use of Qualcomm 410c Dragonboard.

PictRNNary — *Cal Hacks 5.0 2018*

Built an artificial intelligence that can play Pictionary. Used Microsoft Azure APIs with JavaScript and jQuery to create a voice interface that could distinguish different player voices to develop a scoring system. Interfaced a Node.js backend with a Python sketch-drawing recurrent neural network to render the game on a website. Won the Microsoft award and was a Microsoft Imagine Cup semifinalist.

Blindsight — *TechCrunch Disrupt SF Hackathon 2018*

Developed a smartwatch device to assist the visually impaired through machine learning and haptic feedback. Learned Bluetooth protocols in a month to develop a voice assistant with Java and Kotlin that could communicate with a Raspberry Pi. Interfaced Google Cloud's computer vision services with Python to recognize objects and text. Won semi-finalist at China-US Young Maker Competition 2018. Won Visa API, HERE Mobility SDK, and semi-finalist awards at TechCrunch Disrupt SF Hackathon 2018. Featured on Hackster.io, Makezine, PYMNTS.com, and CBS.

SKILLS

Express.js - Node.js/JavaScript - MongoDB - Mongoose - PostgreSQL - Python - Flask - Ruby on Rails - React - React Native - Redux - Java/Android - Arduino - C/C++ - C# - AWS - Git - Linux - Adobe Premiere Pro

EDUCATION

University of Southern California — *BS in Computer Engineering and Computer Science*

EXPECTED TO GRADUATE IN MAY 2022