Matthew Lee

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Objective Seeking a full-time position in a software engineering or data science role

Education

California Polytechnic State University, San Luis Obispo, CA
B.S. in Computer Engineering, 2018

Work Experience

Apple, Inc. Cupertino, CA
Software Engineer, Firmware QA **–** June 2018 – Present

- Built and maintained test frameworks and scripts for validating firmware builds on 1st generation prototype hardware.
- Defined design choices for foreign object detection, coil selection and device detection subsystems on inductive charging solution.
- Worked with cross functional teams to communicate their needs, issues and testing status back to the firmware development team.
- Designed and spearheaded data gathering initiatives crucial in making key firmware and algorithmic design choices.

Sensel, Inc. Los Altos, CA
Software Engineering Intern/Consultant **–** June 2017 – Dec 2017

- Updated factory software for new device production run as well as debugging/maintaining systems (Python & C#).
- Created tests and data interpretation scripts for FSR touch-pad characterization/validation tests.
- Consulted with contract manufacturer in order to improve factory test stations as well as create new test fixtures.

Afero, Inc. Los Altos, CA
Software Engineering Intern/Consultant **–** June 2016 – February 2017

- Defined, designed and implemented factory hardware validation test system for IoT hub device in Python as well as participating in initial production bring up.
- Defined, designed and implemented RF (Wifi 5GHz and 2.4GHz, BLE, WAN) calibration factory test system in Python.
- Implemented factory firmware flashing system in Python.
- General scripting and programming tasks in C and Python (i.e. CRC8 checksum generator, device firmware updater).

Thync, Inc. Los Gatos, CA
Software Engineering Intern/Consultant – June 2015 – Jan 2016

- Using Python, created a user interface to communicate and control a BLE device using a BLE chip attached to a laptop through serial connection. This required the execution of BLE commands to manipulate emitted electric wave forms.
- Led user interface design using input from scientists and doctors at Boston site.
- Created a temperature sensor that reported temperature once every second and then transmitted data to BLE serial chip. The program logged temperature in .csv file format.

Skills Python, C, C#, Java, Visual Studio, Git
Proficient with use of logic analyzers and oscilloscopes for debugging
Circuit analysis and troubleshooting techniques