Edmond Lee
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Website and Portfolio | Github | Linkedin

EXPERIENCE

Software Developer Contractor November 2016 - May 2018
JourneyTEAM, Salinas, CA

- Designed software and hardware components for a QR scanning system with a Raspberry Pi connecting to mobile apps through Bluetooth LE for food traceability
- Implemented the QR scanning with 75% improved speed and at 50% the cost of a competitor product with OpenCV and Python multiprocessing
- Developed Raspberry Pi embedded systems and circuits for agricultural IoT applications

Volunteer Programming Mentor October 2017 - Present

- Mentored the programmers in CardinalBotics, a FIRST Robotics Competition team based out of Lowell High School
- Researched machine learning, specifically object detection with Caffe and its applications in FRC for autonomous robot programming

Software Developer Intern June 2015 - August 2015
NASA Goddard Space Flight Center, Greenbelt, MD

- Made improvements to NASA Worldview, a Javascript data visualization program
- Implemented creating and sharing of animations, to help scientists and users better understand satellite imagery from Worldview

PROJECTS

Terraview Android Application

- Implemented an Android app similar to Worldview, source available in Github, published onto Play Store
- Showcases the use of 3rd party libraries and the MVP and MVVM architecture
- Contains unit and instrumentation tests for code coverage

VisorNav Team, Senior Design Project January 2016 - June 2016
University of California, Santa Cruz

- Lead development on Android and iOS applications to integrate a GPS navigation system with a custom Bluetooth LE device
- Integrated the device's embedded software with both mobile applications and a battery monitor circuit
- Demonstrated a low power LED based guidance system to potentially allow bicyclists to navigate and travel safely

EDUCATION

Bachelor of Science, Computer Engineering, 2016
University of California, Santa Cruz
Santa Cruz, CA

TECHNICAL SKILLS

- Languages: Java (Proficient), C (Intermediate), Python (prior experience), Swift (prior experience)
- Frameworks: Android, RxJava 2, Retrofit 2, Mockito, Google Maps, Gson, iOS, Django, Caffe
- Technologies: SQLite, Raspberry Pi, Bluetooth LE