Edmond Lee
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Website and Portfolio | Github | Linkedin

TECHNICAL SKILLS

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

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 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 playing and sharing animations of satellite imagery; features were later released to 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 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