

Alexander L. Rivera

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WORK EXPERIENCE

- NASA & Temple University** | Research Assistant | Philadelphia, PA Aug 2016 - Present
Develop a simulation for testing artificial intelligence used to notify firefighters of dangerous conditions during rescues with the Jet Propulsion Laboratory and the Los Angeles fire department.
- NASA** | Research and Development Engineer Intern | Hampton, VA May 2016 - Aug 2016
Implemented an obstacle detection algorithm using OpenCV for an autonomous drone. Implemented networking protocols to allow interprocess communication between hardware components.
- Nasdaq** | Software Developer Intern | Philadelphia, PA Sept 2015 - Dec 2015
Built a FIX-compliant messaging gateway to route option messages to stock exchanges through Bank of America Merrill Lynch using Java. Implemented stock option trade verification and error logging.
- Comcast** | Android Software Engineer Intern | Philadelphia, PA May 2015 - Aug 2015
Implemented the Facebook Share Dialog for Xfinity Share enabling users to post pictures and videos to Facebook through their set top box and mobile phone.
- Let's Get Ready!** | Math Coach and Site Director | Philadelphia, PA Sept 2014 - May 2015
Created lesson plans to teach math concepts and SAT test-taking skills to a small class of high school students. Promoted to Site Director. Developed strategies to recruit more coaches and students for participation in the program.

PROJECTS

- ParKey** | iOS and Arduino Application | PennApps Jan 2016
Developed a Bluetooth low energy application that allows users to instantaneously pay for parking once they have parked their car.
- Outage Outreach** | Java Application | Comcast Intern Challenge Aug 2015
Built an outage notification system integrating existing platform services in Java to dispatch SMS notifications in the event of a service outage to Xfinity customers. Won first place in the company-wide intern challenge.
- SecureMi** | Android Application | Google's Hack 4 Humanity Dec 2014
Implemented a custom Android lock screen that hides a user's media files upon entering a secondary pin.

SKILLS

Programming Languages

Experienced: Java, C, MySQL, HTML, CSS

Familiar: JavaScript, Python, Objective-C, C++, C#, MATLAB

Development Frameworks & Libraries

Experienced: Android, Django, jMonkey, Raspberry Pi, OpenCV, MAVLink, Bootstrap

Familiar: iOS, Unity, Arduino

EDUCATION

- Temple University** | College of Science and Technology | Philadelphia, PA Aug 2014 - May 2017
Bachelor of Science in Computer Science