Alexander L. Rivera

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EDUCATION

Temple University | College of Science and Technology | Philadelphia, PA — Aug 2014 - May 2017
Bachelor of Science in Computer Science | GPA: 3.16

EXPERIENCE

Temple University | Undergraduate Researcher | Philadelphia, PA — Aug 2016 - Present
Collaborate with NASA's Jet Propulsion Laboratory and the Los Angeles fire department to develop a fire simulator to test an artificial intelligence used for notifying firefighters of dangerous conditions during fire rescues.

NASA | Research and Development Engineer Intern | Hampton, VA — May 2016 - Aug 2016
Researched and 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.

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