

# 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

**Familiar:** iOS, Unity, Arduino