

# Alexander L. Rivera

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## WORK EXPERIENCE

- 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.
- Philadelphia Game Lab** | Software Engineer Intern | Philadelphia, PA Oct 2014 - Feb 2015  
Developed Lux, an open-source framework for updating player game states across multiple clients.

## PROJECTS

- ParKey** | iOS and Arduino Application 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 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 Dec 2014  
Implemented a custom Android lock screen that hides a user's media files upon entering a secondary pin. Built in 48 hours as part of Google's Hack 4 Humanity Hackathon.

## EDUCATION

- Temple University** Philadelphia, PA Aug 2014 - Dec 2016  
*College of Science and Technology*  
B.S. in Computer Science | GPA: 3.36

## TECHNICAL SKILLS

- Programming Languages**  
*Proficient in:* Java, C, MySQL  
*Familiar with:* JavaScript, HTML, CSS, Python, Objective-C, C++
- Development Frameworks & Libraries**  
Android, iOS, Django, jMonkeyEngine, Arduino | OpenCV