Alexander L. Rivera

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WORK EXPERIENCE

Temple University | Student Software Developer | Philadelphia, PA — Sept 2016 - Present
- Use natural language processing and machine learning to determine the context of emails sent to the university registrar to generate automatic responses.

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 mobile phone.
- 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.

PROJECTS

Pi in the Sky | Raspberry Pi and OpenCv | Personal Project — Oct 2016
- Build a security camera system that once is triggered by a motion sensor, tracks the intruder and notifies a user of entry into their space via text or phone call.

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.

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, jMonkey, Raspberry Pi, OpenCV, Bootstrap, NLTK
Familiar: iOS, Unity, Arduino, Django, MAVLink

EDUCATION

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