Alexander L. Rivera

ariveralee@gmail.com | 267-399-8007 | ariveralee.com | github.com/ariveralee | linkedin.com/in/ariveralee

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 set top box and mobile phone.

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.

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, 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