

Alexander L. Rivera

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WORK EXPERIENCE

Temple University | Student Software Developer | Philadelphia, PA

Sept 2016 - Present

- Use natural language processing to determine the context of emails sent to the university registrar.
- Apply machine learning to generate automatic responses based on the context of received emails.

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 UDP Sockets for interprocess communication.

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 upon being 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

- Built 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
Bachelor of Science in Computer Science

Aug 2014 - May 2017