

Alexander L. Rivera

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EXPERIENCE

CORE Technology Associate | Comcast NBCUniversal

July 2017 - Present

GolfNow | Emerging Business | Software Engineer | Orlando, FL

- Designed and created a mobile application for Golf Channel's World Long Drive for Android and iOS allowing players and tour attendees to view player hit schedules, player scores and tour information.
- Automated the manual, error-prone SSL certificate generation and renewal process for over 2000 golf course domains.
- Designed and implemented Sprinkle - a website that the GolfNow services team uses to manage and check the status of customer domains on our platform.
- Created a script that automates the process of identifying golf course domains that do not belong on our platform based on their ip addresses.
- Created a Python script that determines the health of a kubernetes node by comparing checksums for services across multiple nodes.

Research and Development Engineer Intern | NASA | Hampton, VA

May 2016 - Aug 2016

- Created an object detection algorithm using OpenCV for an autonomous drone to aid in preventing collision while flying.
- Implemented interprocess communication between two BeagleBoards allowing the object detection algorithm to notify the drones flight software to adjust its flight path if an obstacle is detected.

Software Developer Intern | Nasdaq | Philadelphia, PA

Sep 2015 - Dec 2015

- Built a FIX-compliant messaging gateway to route option messages for Bank of America Merrill Lynch through Nasdaq's trading system.
- Implemented stock option trade verification testing and error logging.

Mobile Software Engineer Intern | Comcast NBCUniversal | Philadelphia, PA

May 2015 - Aug 2015

- Integrated the Facebook Share Dialog with Xfinity Share enabling users to post pictures and videos to Facebook without leaving the application.
- Built an outage notification system integrating existing platform services to dispatch SMS notifications in the event of a service outage to Xfinity customers.

PROJECTS

Pi in the sky | Raspberry Pi & OpenCV | Personal Project

Oct 2016

- Built a security camera system that upon being triggered by a motion sensor, tracks the intruder and notifies a user of movement being detected through text or phone call.

SKILLS

Languages & Databases

Javascript | Node.js | Java | Python | C | C# | CSS | HTML | MongoDB | MySQL

Libraries/Frameworks & Build Tools

React | Lodash | Redux | OpenCV | Xamarin | Android | iOS | Raspberry Pi | Docker | Kubernetes

EDUCATION

Temple University | College of Science and Technology | Philadelphia, PA

Aug 2014 - May 2017

Bachelor of Science in Computer Science