

# Mitchell Artin

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## Objective

To obtain a full-time position beginning in June 2018 in software engineering.

## Education

### University of Florida – 2012 to Present

- B.S. Computer Science, 3.4/4.0 GPA, Business Administration Minor, Graduation May 2018
- Compl. Relevant Courses: Data Structures, Operating Systems, Net. Fundamentals, Information Sec.

## Professional Experience

### Software Development Co-Op Engineer - Planetary Resources - May 2017 to Present

- Designed and implemented a system mode for spacecraft which met power and communication goals
- Implemented a database of spacecraft telemetry to easily save and recall information for comparison at the beginning and end of satellite passes
- Responsible for maintaining unit tests associated with spacecraft and ground station functionality
- Debugged and improved existing ground control applications, all development in Python

### Network Administration Assistant – University of Florida – February 2013 to October 2016

- Tested and deployed FreeIPA identity management software across Linux infrastructure of 150 hosts
- Architected and deployed Certificate Authority for existing Active Directory system of 100 hosts
- Transitioned existing services to Docker to better utilize data center resources
- Developed and maintaining automation scripts in Bash and Ansible for management of 200 hosts
- Deployed ELK stack Syslog server for Linux environment to replace Splunk and reduce costs

### Software Development Intern – Capital One - May 2015 to August 2015, May 2016 to August 2016

- Added an Amazon Web Services EC2 server metrics monitoring widget to Capital One's FOSS project, Hygieia, a Dev-Ops Dashboard
- Wrote Java backend to collect server metrics (CPU, RAM utilization, net latency) using AWS SDK
- Interfaced with Slack Messaging API to create internal Slack bots in Node.js that met internal information security standards

## Extracurricular Activities

### SpaceX Hyperloop Lead Software Systems Engineer for University of Florida

- Participated in Pod Competition Weekend with the Gatorloop team
- Designed networked system to collect sensor data, log and relay telemetry to base
- Implemented redundant and fault tolerant vehicle control unit (VCU) monitoring over 20 sensors
- Developed autonomous braking control system guaranteed to not be accidentally triggered during initial acceleration phase based on position, time, and accelerometer data
- VCU code ran on 3 Raspberry Pi's written in Python, data stored in MySQL

### MitchMania Labs Smart Home Project

- Personal project aimed at complete home automation without using commercial home automation products in my Gainesville home
- Engineered microcontrollers and circuits to replace traditional thermostat and home alarm sensors
- Multi-room music system using 4 Raspberry Pi's, one for each stereo, consuming an RTP stream
- Home alarm created with microcontroller sensors hitting Python Flask REST API to trigger events
- Created PHP/MySQL Media Database web app to categorize drone video footage from hobby
- Utilized Apache Kafka for messaging between applications on my network

### UF InfoSec Team Member

- Participated in Capture-the-Flag events to discover exploits and vulnerabilities in competition systems
- Studied trending vulnerabilities in the wild and how to exploit them

### University of Florida Student Athlete for Cheerleading – August 2012 to December 2014

## Skills

Languages in order of experience: Python, C++, PHP, and SQL

Experience with deploying and managing servers in VMware ESXi and Citrix XenServer environments