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Summary

I'm looking for internship opportunities for the Summer of 2017. Interested in DevOps, Site-Reliability/Infrastructure and Software Engineering opportunities. I've good knowledge on Linux Systems, Networking, Scripting and Web/Software Programming.

Employment

Systems Engineering Intern

RSAE Labs, Panama City, FL

May - August 2016

Ported the Windows build of their Wireless Gateway application to Linux OS and helped to migrate their already existing infrastructure to Amazon AWS.

Integrated the Raspberry Pi with their wireless mesh device through a Flask web application and built a Python API for configuring a wireless connection on a Raspberry Pi remotely.

Graduate Teaching Assistant

University of Colorado Boulder

August 2016 - Present

Course: Secured Systems Architecture

Guiding students in building secure and resilient IoT applications using Python, PHP, SQL and C programming on a Arduino Yun OpenWrt platform.

Education

Boulder, Colorado

University of Colorado Boulder

Fall 2015 - Present

Masters in Electrical and Computer Engineering CGPA 3.34

Languages and Technologies

Languages/Databases: Python, Java, PHP, C, Shell scripting, MySQL.

Web/Frameworks: Django, Flask, Node, Express, , HTML, CSS, YAML, Bootstrap.

Technologies: Amazon AWS, Ansible, Linux - RHEL/Debian, Git, Maven, Ant, Vagrant, Docker, VMWare/VirtualBox.

Projects

Client Side Load Balancer - *ongoing*. Working on a Java-based client side load balancer that handles HTTP requests and distributes the incoming load to various servers from the client. The project is aimed at designing a low-latency, fault-tolerant load balancer that intelligently add/removes servers from the service pool.

Website uptime monitoring - *ongoing*. Working on a Python-based command line tool that would allow users to constantly monitors a host for down time. The tool will also alert the user when a down time occurs.

API for connecting to a Wireless network (August 2016). Wrote a Python API which uses iWlist Linux tool to allow users to set up wireless connections on any embedded device. Python, Shell Scripting, Flask, CSS, HTML, Bootstrap.

Bookmarking Application (March 2016). PHP web application that allows users to add and maintain their bookmarks. Implemented my own MVC framework by separating the Models, Views and Control flows. PHP, SQL, HTML, CSS, Bootstrap.

Activity assistant (March 2016). Django application that allows users to manage appointments, keep track of expenses, add notes and set reminders. Achieved good code reusability and organisation by using various design patterns such as MVC, Command, Momento, Strategy and Facade. Python, Django, SQL, HTML, CSS, Bootstrap.