Jesse Kennedy

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EDUCATION

Clemson University   Graduation Date: May 7, 2016
Computer Science, B.S.

EMPLOYMENT

Red Hat   May 2015 – August 2015
Site Reliability Engineering Intern
- Implemented a system to collect and report process-level bandwidth statistics from over 600 AWS nodes to a Zabbix monitoring system for abuse detection.
- Created an application to extract state information from a monitoring system to be stored in a configuration management repository for reproducibility and auditing purposes.
- Investigated problematic virtual machine states in OpenStack and developed automated repair scripts.
- Created an application to graph timelines of critical infrastructure events utilizing monitoring metrics.
- Attained Red Hat Certified Architect status, the highest level certification Red Hat offers, within 3 months.

Clemson University Mobile Innovation Team   January 2014 – May 2015
Software Engineering Intern
- Developed a mobile web application interfacing with Clemson's OpenStack infrastructure, allowing students to manage their cloud-hosted virtual machines.
- Migrated various web utilities to an isolated environment.

Clemson University Computing Systems and Operations   January 2014 – August 2014
Linux Administration Intern
- Designed and implemented a user-friendly web application to improve inter-team communication and stream-line Clemson's virtual machine deployment process.
- Created an application to clean up data in a virtual machine usage database and email reports to customers.

PROJECTS

Undergraduate Research in Internet of Things   August 2015 – May 2015
Group research project sponsored by IBM involving connected vehicle networks. Functionality includes customizable cloud-based traffic simulations of connected vehicle communication.

Video Game Market Analyzer
Subscribes to a player-driven ZeroMQ distributed message queue containing live updates of in-game market data, storing it in a database. A web-based interface assists traders in viewing market data and finding trade opportunities.

SKILLS

- **Software Development**
  - C / C++
  - Python / Django
  - Go
  - Java
  - PHP
  - Node.js
  - JavaScript
  - HTML5 / CSS
  - Git / SVN
- **Infrastructure and Operations**
  - Linux
  - Virtualization
  - Containers
  - Databases
  - Storage
  - Networking
  - Configuration Management

CERTIFICATIONS

- **Red Hat Certified Architect (RHCA)**
  Certificates of Expertise in the following areas:
- Red Hat OpenStack Platform (RDO)
- Platform-as-a-Service (OpenShift)
- Hybrid Cloud Storage (GlusterFS)

- Red Hat Certified Engineer (RHCSA+RHCE)

- Performance Tuning
- Server Hardening