Harrison Totty

SENIOR DEVOPS ENGINEER · SOFTWARE PROGRAMME

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Summary_

Current Senior DevOps Engineer within the Production Operations group at Centro. Highly experienced at implementing custom infrastructure solutions within both cloud and on-premises environments. Thrives in seeking solutions within domains not yet encompassed by popular technologies or industry standards.

Work Experience

Centro, Inc.

Remote

SENIOR DEVOPS ENGINEER Feb 2021 - Present

- Developed custom operators to simplify deployment of Basis platform environments into Kubernetes.
- · Wrote terraform code for managing infrastructure hosted in AWS.
- Implemented serverless data pipelines using AWS Lambda & Step Functions.

Wolfram Research, Inc. Champaign, IL

DEVOPS ENGINEER Apr 2018 - Feb 2021

- Streamlined disaster recovery of Wolfram Cloud user data with end-to-end encrypted backups via Ω backuputil.
- Provisioned bare-metal Kubernetes environments for Wolfram Alpha utilizing Kubespray, Helm, Rook-Ceph, and Velero.
- Incorporated Hashicorp Vault for secrets management of Kubernetes CI/CD pipelines.
- Implemented infrastructure as code (IaC) standards for on-premises environments by leveraging Puppet and Cobbler.

Web Systems Administrator Dec 2016 - Apr 2018

- Developed a 🖸 templating engine for Apache HTTP Server configurations.
- Collaborated custom log data analysis and reports for Wolfram Cloud in Python and Mathematica.
- Designed Salt configurations for managing internal infrastructure.
- Developed backend code for the Wolfram Cloud Platform in Java.

Web Systems Intern Sep 2016 - Dec 2016

- Implemented new Wolfram kernel features in C/C++.
- Developed a containerized RPM build environment hosted in Apache Marathon/Mesos.

Tallahassee Community College

Tallahassee, FL

MATHEMATICS AND TECHNOLOGY TUTOR

May 2016 - Aug 2016

• Provided tutoring in topics such as Ordinary Differential Equations and introductory programming courses.

Skills

Amazon Web Services ALB/ELB, Cloud Formation, EC2, EKS, IAM, Lambda, RDS, Step Functions, Secrets Manager

Containers & Orchestration Docker, Helm, Kubernetes (managed & unmanaged)

Data Languages CSV/TSV, INI, JSON/YAML, TOML, XML

Data Science Jupyter Lab/Notebooks, Mathematica, matplotlib, plotly, sympy

IDEs & Text Editors GitHub Atom, GNU Emacs, nano, Sublime Text, vi/vim, Visual Studio (Code)

Infrastructure Management Ansible, Cobbler, Puppet, Saltstack, Hashicorp Terraform, Hashicorp Vault, Velero

LAMP Components Apache HTTP Server, HAProxy, keepalived, MySQL (Percona XtraDB Cluster), NGINX, Apache Tomcat

Markup Languages MFX, Markdown, Org

Networking Fundamentals ARP, CIDR, Mikrotik RouterOS, TCP/IP & OSI Model, Ubiquity Unify Controller, VLAN

Operating Systems Alpine Linux, Arch Linux, Debian (Ubuntu), Gentoo, RHEL (CentOS), Void Linux, Microsoft Windows

Programming Languages C/C++, C# .NET, Emacs Lisp, groovy, Perl, Python, Rust, Shell Languages

Software Engineering Bitbucket, git, GitHub, GitLab, Jenkins, JIRA

Systems Administration chronyd/ntpd, DNS (BIND/Unbound), init (SysVinit/systemd), OpenLDAP, postfix, rsyslog, SSSD, ulimits

Templating Languages Cheetah, Embedded Ruby, Jinja, Liquid

Education

Tallahassee Community College

Tallahassee, FL

ASSOCIATE OF SCIENCE

Jan 2015 - Jan 2016

· Graduated honors with 4.0 GPA.