Harrison Totty

DEVOPS ENGINEER · SOFTWARE PROGRAMMER

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Summary

Current lead DevOps Engineer and systems architect for the Web Systems group at Wolfram Research. High experienced at implementing custom infrastructure solutions within bare-metal/on-premises environments. Thrives in seeking solutions within domains not yet encompassed by popular technologies or industry standards.

Work Experience

Wolfram Research, Inc.   *Champaign, IL*

DEVOPS ENGINEER   *Apr 2018 - Present*

- Architected Kubernetes clusters and supporting deployment pipelines.
- Developed/Implemented configuration management and remote execution frameworks.
- Personally architected software platforms, individual servers, machine clusters, and deployment workflows.
- Provided routine performance and security analysis.

WEB SYSTEMS ADMINISTRATOR   *Dec 2016 - Apr 2018*

- Provided general systems administration for various Wolfram web products and services.
- Designed & built DEV/TEST environments for Wolfram Cloud.
- Developed backend code for the Wolfram Cloud Platform in Java.

WEB SYSTEMS INTERN   *Sep 2016 - Dec 2016*

- Developed systems utilities to aid common operations tasks.
- Implemented new Wolfram kernel features in C.
- Ported many internal components to containerized environments.

Tallahassee Community College   *Tallahassee, FL*

MATHEMATICS AND TECHNOLOGY TUTOR   *May 2016 - Aug 2016*

- Provided tutoring and support to students in various mathematics and technology topics.

University of West Florida   *Pensacola, FL*

STUDENT SSE SYSTEM ADMINISTRATOR   *Jan 2014 - Aug 2014*

- Provided general systems administration for the faculty of the School of Science and Engineering.

RESNET TECHNICIAN   *Feb 2012 - Aug 2013*

- Supported the technical needs of dorm students.

Skills

Containers & Orchestration	Docker, Helm, Bare-Metal Kubernetes (k8s & k3s)
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, Salt, Hashicorp Vault, Velero
LAMP Components	Apache HTTP Server, HAProxy, keepalived, MySQL (Percona XtraDB Cluster), NGINX, Apache Tomcat
Markup Languages	$\LaTeX$, 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.