Harrison Totty

DEVOPS ENGINEER · SOFTWARE PROGRAMME

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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

· Supported the technical needs of dorm students.

Feb 2012 - Aug 2013

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 LTFX, 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 Jan 2015 - Jan 2016

ASSOCIATE OF SCIENCE

· Graduated honors with 4.0 GPA.

NOVEMBER 10, 2020 HARRISON TOTTY · RÉSUMÉ