

# 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.

## Relevant Skills

<b>DevOps</b>	Docker, Kubernetes (k8s & k3s)
<b>Configuration Management</b>	Ansible, Cobbler, Puppet, Salt
<b>Data Science</b>	Jupyter Lab/Notebooks, Mathematica, matplotlib, plotly, sympy
<b>Systems Administration</b>	Arch Linux, Debian (Ubuntu), RHEL (CentOS)
<b>Networking Fundamentals</b>	ARP, CIDR, Mikrotik RouterOS, TCP/IP & OSI Model, Ubiquiti Unify Controller, VLAN
<b>Programming Languages</b>	C/C++, C#, Emacs Lisp, groovy, Perl, Python, Rust, Shell Languages

## Education

### Tallahassee Community College

Tallahassee, FL

#### ASSOCIATES OF SCIENCE

Jan 2015 - Jan 2016

- Graduated honors with 4.0 GPA.