Harrison **Totty**

DEVOPS ENGINEER · SOFTWARE PROGRAMMER

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Summary

Current lead DevOps Engineer for the various Wolfram Cloud environments. Extensive software development experience since a very early age. Almost entirely self-taught and quick to learn new technologies.

Work Experience

// Wolfram Research, Inc.   *Champaign, IL*

[DEVOPS ENGINEER]   *Apr 2018 - Present*

- Developed/Implemented configuration management and remote execution frameworks for the various Wolfram Cloud environments.
- Personally architected software platforms, individual servers, machine clusters, and deployment workflows.
- Provided routine performance and security analysis.
- Improved deployment processes for Wolfram Cloud.

[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.

Sample Projects

// CV & Resume   *Personal Project*

[(THIS DOCUMENT)]   *May 2019 -*

- Built from Jinja2-templated LaTeX documents via "tmpl".
- Raw data present in YAML format.

// tmpl   *Personal Project*

[A GENERAL-PURPOSE TEMPLATING SYSTEM]   *May 2019 - Jun 2019*

- A general-purpose Jinja2/YAML templating system based on "mkconf" and "mkdot".
- Utilized in the generation of this CV/Resume.
- Supports runtime-loaded Python extensions to the templating system.
- Capable of handling raw Jinja2 content piped directly to STDIN.

// Remote Execution Framework   *Personal Project*

[AN EASY REMOTE COMMAND EXECUTION UTILITY]   *Nov 2018 - Apr 2019*

- Written in Python3 as a lightweight alternative to frameworks such as Fabric and Ansible.
- Automatically formats output depending on whether a TTY is present.
- Capable of running both arbitrary commands and defined tasks.
- Includes interactive console mode.

Education

// Tallahassee Community College   *Tallahassee, FL*

[ASSOCIATES OF SCIENCE]   *Jan 2015 - Jan 2016*

- Graduated honors with 4.0 GPA.