

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

- 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.

Sample Projects

Personal Finance Analytics Platform

Personal Project

A PYTHON LIBRARY FOR CATEGORIZING AND ANALYZING BANK TRANSACTIONS

Mar 2020 -

- Categorizes transactions based on a home-made library of regular expressions.
- Leverages sklearn to perform predictive regression on financial trends.
- Provides a wrapper around plotly for graphical analysis.

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.

AUGUST 7, 2020 HARRISON TOTTY · RÉSUMÉ