

DEVOPS ENGINEER · SOFTWARE PROGRAMMER

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Education_

Tallahassee Community College

Tallahassee, FL

ASSOCIATES OF SCIENCE

Jan 2015 - Jan 2016

· Graduated honors with 4.0 GPA.

University of West Florida

Pensacola, FL

PHYSICS

Aug 2011 - Jul 2014

Skills

Configuration Management Puppet, Salt

Configuration/Data Languages JSON, TOML, YAML

GNU/Linux Distrobutions Arch Linux, Gentoo, Debian (Ubuntu), RHEL (CentOS), Void Linux

High Availability HAProxy, keepalived

Human Languages English (Native), German (Beginner)

Markup Languages LaTeX, Markdown, Org

Programming Languages C/C++, C#, Emacs Lisp, Perl, Python, Rust, Shell Languages, Wolfram (Mathematica)

Project Management GitHub Issues/Projects, GitLab Issues, JIRA

Repository HostingBitbucket, GitHub, GitLabTemplating LanguagesLiquid, Jinja, Puppet

Text Editors GNU Emacs, Vim

Version Control Systems cvs, git

Web Servers Apache Tomcat, Apache Web Server

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.

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.

Wolfram Research, Inc.
Wolfram Summer School Student

Radio Shack

SALES ASSOCIATE

Boston, MA Jan 2013 - Feb 2013

• Invited to Bentley University for three weeks to conduct research on various machine learning analogues.

Pensacola, FL Jul 2013 - Mar 2015

• Provided customer service and support for a variety of mobile devices, DIY components, and more.

May 30, 2019 Harrison G. Totty · Curriculum Vitae

University of West Florida Pensacola, FL Jan 2014 - Aug 2014

STUDENT SSE SYSTEM ADMINISTRATOR

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

Feb 2012 - Aug 2013 RESNET TECHNICIAN

• Supported the technical needs of dorm students.

Projects

CV/Resume Personal Project

(THIS DOCUMENT)

May 2019 -

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

Personal Project tmpl

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.

mkdot Personal Project

THE HANDY DOTFILE TEMPLATING SYSTEM

• Based on "mkconf" project, but specialized for the generation of dotfiles.

Wolfram Research, Inc.

AN APACHE WEB SERVER CONFIGURATION TEMPLATING ENGINE

Aug 2018 - Sep 2018

Oct 2018 - Dec 2018

- · Generates Apache Web Server configurations from Jinja2 templates and YAML configuration files.
- · Replaced older in-house utility written in Perl.
- · Validates directives after generating configuration files.
- · Capable of backing-up previous configurations and reverting changes.