arrison G. Totty

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Education_

// Tallahassee Community College

Tallahassee, FL

[ASSOCIATES OF SCIENCE]

Jan 2015 - Jan 2016

· Graduated honors with 4.0 GPA.

Pensacola, FL

// University of West Florida

Aug 2011 - Jul 2014

[PHYSICS]

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 Hosting Bitbucket, GitHub, GitLab Templating Languages Liquid, 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

Apr 2018 - Present [DEVOPS ENGINEER]

- 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]

[WOLFRAM SUMMER SCHOOL STUDENT]

May 2016 - Aug 2016

• Provided tutoring and support to students in various mathematics and technology topics.

// Wolfram Research, Inc.

[SALES ASSOCIATE]

Boston, MA Jan 2013 - Feb 2013

Jul 2013 - Mar 2015

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

// Radio Shack Pensacola, FL

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

HARRISON G. TOTTY · CURRICULUM VITAE JULY 6, 2019

// University of West Florida

Pensacola, FL

[STUDENT SSE SYSTEM ADMINISTRATOR]

Jan 2014 - Aug 2014

Feb 2012 - Aug 2013

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

[RESNET TECHNICIAN]

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· 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.

// 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.

// mkdot Personal Project

[THE HANDY DOTFILE TEMPLATING SYSTEM]

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

// mkconf 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.