# 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.

// 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 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

[ 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.

Boston, MA

[WOLFRAM SUMMER SCHOOL STUDENT]

Jan 2013 - Feb 2013

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

#### // Radio Shack [ SALES ASSOCIATE ]

Pensacola, FL

Jul 2013 - Mar 2015

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

JUNE 3, 2019

HARRISON G. TOTTY · CURRICULUM VITAE

// University of West Florida

Pensacola, FL

[ STUDENT SSE SYSTEM ADMINISTRATOR ]

Jan 2014 - Aug 2014

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

[RESNET TECHNICIAN]

• Supported the technical needs of dorm students.

Feb 2012 - Aug 2013

## **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.