

#### DEVOPS ENGINEER · SOFTWARE DEVELOPER

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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

#### **Remote Execution Framework**

Personal

AN EASY REMOTE COMMAND EXECUTION UTILITY

Nov 2018 - Apr 2019

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

mkconf Wolfram Research, Inc.

APACHE WEB SERVER CONFIGURATION TEMPLATE ENGINE

Aug 2018 - Sep 2018

- · Written in Python3.
- Generates Apache Web server configurations from Jinja templates and YAML configuration files.
- Replaced older in-house utility written in Perl.
- Validates directives after generating configurations.
- · Capable of reverting changes.

### Education \_\_\_

ASSOCIATES OF SCIENCE

#### **Tallahassee Community College**

Tallahassee, FL

Jan 2015 - Jan 2016

• Graduated honors with 4.0 GPA.