

# Alec Benson

SOFTWARE ENGINEER



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### PROFESSIONAL OBJECTIVE

Get job pls

## LANGUAGES

 Python 3
 ★ ★ ★ ★

 Go
 ★ ★ ★

 SQL
 ★ ★ ★

 Java
 ★ ★ ★

 HTML
 ★ ★ ★

 C
 ★ ★

 CSS
 ★ ★

**EXPERIENCE WITH** 

Git

REST

Docker

Splunk

Kubernetes

GraphQL

Databases

PostgreSQL, MySQL, MariaDB

#### WORK EXPERIENCE

#### **NMT Cyber Security Centers**

Full-Stack Developer / December 2019 - Current

Developed a web application in Go for the purpose of data

- Developed a web application in Go for the purpose of database visualization
- Spreadsheet-like way to interact with SQL based databases for nondevelopers
- Frontend was built with HTML, CSS, and Javascript, and the backend was built using Golang, GraphQL, PostgreSQL, and Hasura

#### Sandia National Labs and New Mexico Tech Emulytics

Research Assistant / August 2019 - Current

- Developed a series of web crawlers in Go
- Developed RESTFUL API that is used by the crawlers for inter-network communication
- Helped to build the infrastructure code that runs these spiders on a Kubernetes cluster
- Using data aggregated by the crawlers, performed research on identification of cyber attack prognosticators using Python and statistical analysis

#### **Abacus Systems**

Software Developer / May 2019 - Current

- Moved to a more broad role of project management and actual system design, managed a junior developer
- Working to streamline and provide clear interface for non-programming inclined team members to work with
- Continuing to extend and improve on trading automaton

#### **Abacus Systems**

Junior Software Developer / December 2016 - March 2019

- Worked to prototype Trading Automata with a small team
- Built a first draft of a trading automaton in C, then took this experience and built a more robust version in Python

#### Air Force Research Labs

Summer Scholars Intern / May 2017 - August 2017

- Worked with software engineer to improve the "Satellite Energy Assessment Model"
- Mainly focused on UI development, using Java and JavaFX

#### **EDUCATION**

# New Mexico Institute of Mining and Technology

BS in Computer Science August 2016 - May 2020

#### SKILLS

- Interdisciplinary Communication
- Back End Development

Compiler Design

- Web Stack Design
- API Design and Implementation

#### AWARDS AND EXTRACURRICULARS

### New Mexico Tech Student Research Symposium 2020

"Identification of Threat Prognosticators Through Online Discourse"

New Mexico Tech Outstanding Student Appreciation Award, 2019

Honorable Mention Award

# Association of Computing Machinery, 2018-2019

President of the New Mexico Tech chapter of the ACM