# CHRISTOPHER ALVES

#### **Software Engineer**

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in chrisae9

Chrisae9

chis.dev

### **EDUCATION**

#### BS in Computer Science | George Mason University

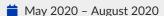
**a** August 2016 - January 2021

Fairfax, Virginia

• GPA: 3.0

#### **EXPERIENCE**

#### Software Engineering Intern | Northrop Grumman Innovation Systems \*\*



Dulles, Virginia

- Developed new feature for orbital simulation software. Coded GUI in PyQt5, updated message broker schema in C++, verified database integrity in pgAdmin.
- Collaborated with end-user to ensure that system functionality tailored to their needs.
- · Participated in full sprint cycle including the retrospective.
- Provided well written documentation for changes in code pushed to Bitbucket.

### Cybersecurity Intern | Northrop Grumman Aerospace Systems

- May 2019 August 2019
- Melbourne, Florida
- Developed a Graphical User Interface program in PyQt5 that scans and tests the security and integrity of code all across the network.
- Automated the configuration of over 100 Red Hat Enterprise Linux environments using Ansible playbooks.
- Mentored 2 other interns in Basic Linux Commands, and Version Control System.

### **PROJECTS**

### Split 🖺 | 🞧 | 🌐

- **Spring 2021**
- A web application designed to efficiently split the cost of a grocery receipt between contributors.
- Full-stack MERN application with Google OAuth 2.0 and REST API. Hosted on my personal server and website.

# Discord Bot 📮 | 🖸 | 🌐

- Summer 2020
- A Discord chat bot designed to help plan nightly competitive team events.
- Coded using Python Discord library, tested using Discord client.

# YouTube Trending Prediction | | | |

- Fall 2020
- A PyQt5 application that predicts whether a trending YouTube video will reach over a million views within a 24 hour time window.
- Implemented various Python Machine Learning Libraries, computed optimal algorithm by hyper parameter tuning random forests.

#### Custom Built Mechanical Keyboard 📟 | 😯 | 🌐

- Summer 2019
- Built and Programmed a custom mechanical keyboard using the DZ60 PCB.
- Contributed source code to the official QMK GitHub repository.

### **PROGRAMMING** LANGUAGES

Bash Python Java C React JS SQL JavaScript

**HTML CSS JSON** YAML Markdown LaTeX

### SOFTWARES

**Emacs** 

Vim

Git JIRA Bitbucket pgAdmin Spring Boot Docker MongoDB Postman Ansible

# **METHODOLOGIES**

VS Code

Scrum Agile Test-Driven Development Microservice Architecture Domain Driven Design

DREAD Assessment

**SOLID Principles** 

# **OPERATING SYSTEMS**

Arch Linux Ubuntu

MacOS

Windows 10

Chrome OS