

CHRISTOPHER ALVES

Software Engineer

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EDUCATION

BS in Computer Science | [George Mason University](#)

📅 August 2016 – January 2021 📍 Fairfax, Virginia

GPA: 3.0

EXPERIENCE

Software Engineering Intern | [Northrop Grumman Innovation Systems](#) ✈️

📅 May 2020 – August 2020 📍 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

- 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

- 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

- 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

Python Java C Lisp

Bash SQL JavaScript

React JS

HTML CSS JSON

YAML Markdown LaTeX

SOFTWARE

JIRA Git Bitbucket

pgAdmin

Spring Boot Docker

Ansible MongoDB Postman

Vim Emacs VS Code

METHODOLOGIES

Agile Scrum

Test-Driven Development

Microservice Architecture

Domain Driven Design

SOLID Principles

DREAD Assessment

OPERATING SYSTEMS

Ubuntu RHEL Arch Linux

Windows 10 MacOS

Chrome OS