

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

- 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

Python Java C Bash
SQL JavaScript React JS

HTML CSS JSON
YAML Markdown LaTeX

SOFTWARES

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