

Dhairya Surana

703-226-9367 | Centreville, VA 20120 |
dhairyasurana@gmail.com |
https://dhairyasurana.github.io/Personal_Website/

SKILLS

Programming languages: Python, C/C++, Java, JavaScript, HTML/CSS

Cyber/Networking: Authentication, IP/TCP, Wireshark, Kali

Frameworks: p5.js, Bootstrap, Flask, Django, Qt

Operating Systems: Linux, Windows

Other: Data Structures, Algorithms, AWS Cloud, Rest API, Software Design

EXPERIENCE

Oct 2019 - Dec 2019 **AWS/Web App Developer, Virginia Tech**

Researched and Launched AWS S3 bucket to host a web application.

Built a web application using p5.js and deployed to AWS S3.

<https://thepatriotvirus.s3.amazonaws.com/index.html>

June 2019 - Aug 2019 **Software Engineer Intern (contractor), Microsoft**

Developed a Django app to improve the efficiency of the geodata verification process by 20%.

Collaborated with the product owner via Agile to create a Javascript prototype under 4 sprints.

Utilized SQLite to query user accounts information for data verification.

Feb 2019 – April 2019 **Avionics Software Engineer, Virginia Tech CubeSat**

Tested design concepts by connecting components via message queue to check debug info.

Analyzed different microcontrollers for use in the flight computer.

Decided between Virginia Tech's VCC and NASA's core flight software for the flight computer.

Documented findings in the PDR, which won 1st place in the SEDS SAT II Competition.

Sep 2018 **Cybersecurity Analyst, Virginia Tech Cyber**

Researched network scanning detection based on pattern of syn-ack flag ratio.

Automated detection process through the pattern using Python.

EXTRACURRICULARS

- NASA L'Space Academy
- AT&T Externship