DHAIRYA SURANA

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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

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 using Agile to create a prototype under 4 sprints via JavaScript and Bootstrap framework.

Utilized SQLite to query user accounts information for data verification.

AWS/Web App Dev, 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

Avionics Software Engineer, Virginia Tech CubeSat (InspireFly)

Analyzed different microcontrollers for use in the flight computer.

Collaborated with engineers to research different software systems for the flight computer.

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

Embedded Engineer, Virginia Tech

Implemented ultrasonic sensor and applied message queue to construct rover delivery system

Cybersecurity Engineer, Virginia Tech

Researched network scanning detection based on pattern of SYN-ACK flag ratio.

Automated detection process through the pattern using Python.