

# Dhairya Surana

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703-226-9367 | Centreville, VA 20120 |  
dhairya.surana@gmail.com |  
[https://dhairyasurana.github.io/Personal\\_Website/](https://dhairyasurana.github.io/Personal_Website/)

## SKILLS

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

**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

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- Sep 2020 – Dec 2020      **Scrum Master, Virginia Tech**  
Architected a Hospital Management System to assist hospitals with low doctor-to-patient ratios.  
Integrated app with MySQL database hosted on AWS RDS.  
Implemented medical chatbot to simulate bedside manner.
- 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, 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.
- 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

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- Virginia Tech CubeSat Avionics
- NASA L'Space Academy
- AT&T Externship