

Caleb Matsick

SOFTWARE ENGINEER INTERN · COMPUTER SCIENCE MAJOR AND MATHEMATICS MINOR

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Education

Liberty University

Lynchburg, Virginia

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, MATHEMATICS MINOR, HONORS

Aug. 2018 - May 2022

- Cumulative GPA: 3.8/4.0 | Major GPA: 4.0/4.0
- Dean's List every semester
- Coursework: Data Structures, Algorithms, Databases Systems, Computer Architecture, System Administration, Network Architecture

Skills

Programming C++ • Python • Go • SQL • Bash • Powershell

Frameworks/Libraries Django • Pandas • Numpy

Technologies/Tools Docker • Git • Linux (Kali, Debian, CentOS) • AWS EC2 and ECS • Nmap • Wireshark

Experience

Motley Fool Wealth Management

Remote

WEB ENGINEER INTERN

Jun. 2020 - Jul. 2020

- Utilized **Docker** to migrate **AWS** Data Pipeline Task Runner to **ECS** from an **EC2** instance resulting in approximately a 50% reduction in costs
- Developed a **Python** script to monitor certain dates on Motley Fool Asset Management to ensure accuracy and regulatory compliance while saving roughly 4 hours per month
- Configured **Datadog** to monitor the performance and metrics of each individual container on **ECS**
- Wrote a **Python** program to fetch data files from an **SFTP** server, manipulate them with **Pandas**, upload them to an **S3 bucket**, then copy the results into a **Redshift** database
- Developed a quiz interface with **HTML**, **CSS**, **Javascript**, and **Django** to attract more entry-level users to The Motley Fool website

Cyber Defense Club

Lynchburg, Virginia

OFFICER

Nov. 2019 - Present

- Taught club members the fundamentals of Cybersecurity ranging from topics such as creating and setting up **virtual machines** to scanning networks through tools like **Nmap** and **Wireshark**
- Helped guide members through solving different Cybersecurity challenges through platforms such as **Hack The Box** and Bandit **Over The Wire**
- Planned extracurricular events such as movie nights to build connections and get students more involved in the Cybersecurity world

Liberty University

Lynchburg, Virginia

RESIDENT ASSISTANT

Feb. 2020 - Present

- Collaborated with a leadership team of five other students to interview students' mentors for a dorm resulting in a team of ten more experience students to assist new students
- Planned several meetings and events to strength the teamwork and leadership skills of all the members of the leadership team
- Coached a small group of six peers in navigating college and thriving in its environment

Projects

PMT Health Analyzer

- Developed a **Python** program to read data collected from Scintillation Camera Photomultiplier Tubes (PMT).
- Data was subsequently formatted, plotted, and analyzed using **Numpy**, **Pandas**, and **Matplotlib** to determine if a PMT was reaching EOL

Stock Ticker API

- Utilized **Python** and **Django** to create an API to return company names, ticker and exchange information

Reddit Quote Bot

- Created a Reddit bot to post quotes once a day using **Python**, **Selenium**, and **Praw**.
- Deployed and hosted app on **Heroku** and scheduled the app to run daily

Competitions

2020	1st Place of 25 , Virginia Military Institute Cyber Fusion CTF Observer Challenges
2019	TOP 10 (of 30) , Western Regional Collegiate Cyber Defense Competition Invitational
2019	TOP 20 (of ~100) , University of Virginia MetaCTF Cybersecurity Competition