William Freeman

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EDUCATION

Towson University **Towson, MD**
B.S. Computer Science *May 2023*
GPA - 3.7
Dean's List *2019, 2020, 2021, & 2022*
Mid-Atlantic CIO Scholarship recipient *2020 & 2022*s

SKILLS

Operating Systems: Windows 10

Tools: Microsoft Visual Studio 2019 & 2022, Visual Studio Code, IntelliJ IDEA 2020, PyCharm 2020, DataGrip 2022, Packet Tracer 8.0.1

Languages/Frameworks: Python, C#, TCP/IP, .NET Core, Angular, JavaScript, TypeScript, Git, WPF, OOP, Docker, MySQL, PostgreSQL, AWS, Scrum, NUnit, Postman, MongoDB, CircleCI

CERTIFICATIONS

- Cisco Certified Network Associate (CCNA) *August 2021-2024*
- CompTIA Security+ (Sy0-601) *January 2022-2025*

WORK EXPERIENCE

Rocket Mortgage **Detroit, MI**

Software Engineer Intern *May-August 2022*

- Collaborated with experienced product owners, software engineers, and system architects to create, maintain, and improve systems to support business functions using C#, Docker, SQL, .Net Core, MongoDB, and AWS
- Participated in daily standup and utilized Scrum to complete assigned stories in an Agile-like manner
- Utilized the unit-testing framework NUnit to identify bugs and ensure software met quality standards
- Employed CircleCI for continuous integration and deployment

Projects

Intern Networking Application

- Designed and developed a web application to enable interns to network with other interns with similar interests, skills, and backgrounds utilizing a user-friendly UI built with Angular
- Deployed a Docker container with a PostgreSQL image to persist user-data and enable smooth movement of the container from local development to production
- Deployed an API developed with ASP .Net to allow for communication with the Postgres database
- Created a background process using C# to fetch user data from the Sift API once a day to keep user data in the PostgreSQL database in sync with Sift

TU Software Engineering Research Lab **Towson, MD**

Research Assistant *February-May 2022*

- Researched applications of Graph Neural Networks (GNNs) in detecting vulnerabilities in Java code.
- Acquired knowledge on ML concepts such as common algorithms, supervised and unsupervised learning
- Developed models in Python using Pytorch to further understand Neural Networks

Army Research Laboratory (ARL) **Adelphi, MD**

Network Engineer Intern *Summer 2019, 2020, & 2021*

Projects

Summer 2021

- Prepared and submitted a bid on a contract to design, configure, and install a network for a newly constructed building.
- Developed a realistic project execution timeline
- Allocated and tracked the project budget

Summer 2020

- Upgraded a university network to increase network throughput speed from 100Mb/s to 1000Mb/s, network capacity by replacing 24 port access switches with 48 port models, network efficiency by optimizing Spanning Tree configurations and implementing OSPF, and network security by developing and implementing access control lists and switchport protection

Summer 2019

- Setup a network for a university by subnetting to accommodate eight groups, implemented standard network security, facilitating communication between networking devices, and establish connectivity