

Jacob H. Motley

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Education:

Master of Science in Computer Science: Cyber Security

The University of Tennessee at Chattanooga

Expected Graduation Dec. 2022

Bachelor of Science in Computer Science: Software Systems

The University of Tennessee at Chattanooga

Fall 2017

Research Experience:

Graduate Research Assistant

May 2021 to August 2021

University of Tennessee at Chattanooga

Chattanooga, TN

- Collaborated with the Professor on his Thesis project.
- Created experiment with Black Box Machine learning attacks against classification using a Capsule Network.

Graduate Research Assistant

August 2020 to December 2020

University of Tennessee at Chattanooga

Chattanooga, TN

- Collaborated with and managed a small team to coordinate project efforts.
- Measured the relationship between Average Tweet Sentiment and OxCGRT (Oxford COVID-19 Government Response Tracker) U.S State Government Stringency Indices.

Work Experience:

Technology and Innovation Intern

May 2022 to Present

Tennessee Valley Authority (TVA)

Chattanooga, TN

- Shadowed employees on the Linux System Administration team as well as the Cyber Security team
- Worked with the Linux System Administration team to improve a Gitlab repository organization

Application Developer

March 2019 to June 2020

Covenant Transport

Chattanooga, TN

- Created full-stack web apps using Microsoft SQL, Entity Framework, ASP.NET Core APIs, Angular, and usually focused on domain-driven design.
- Developed a mobile web application for Covenant's drivers to view their Driver Scorecard metrics.
- Organized application development efforts using Microsoft Azure DevOps for source control, Agile planning, and CI/CD.

Junior Software Developer

February 2018 to February 2019

Barcom, Inc.

Chattanooga, TN

- Developed database-centric systems for customers in manufacturing industries and integrating with assembly line tools and label printers.
- Created in-flight barcode scanning DJI drone app using Python and DJI drone for programming challenge.
- Programmed using ASP.NET Web Forms, .NET Win Forms, and MSSQL.

Technical Skills:

- | | |
|-------------------------|--------------------|
| ● .NET Core/Framework | ● TryHackMe |
| ● .NET ORM (EF, EFCore) | ● Burpsuite |
| ● Angular | ● CTFs |
| ● .NET Xamarin | ● Pfsense |
| ● Python, Anaconda | ● Suricata |
| ● Git, Github | ● Metasploit |
| ● Docker | ● Bash, Powershell |
| ● Nmap | |

Soft Skills:

- | | |
|------------------|----------------------|
| ● Presentation | ● Accepting feedback |
| ● Adaptability | ● Perseverance |
| ● Managing Teams | ● Self-motivated |
| ● Respectfulness | ● Business ethics |

Conferences:

- Presented at Associated of Southeastern Biologists in March 2018 on *Developing and Testing Expedient SERNEC Data Entry Solutions: a proposed modification to the SERNEC/Symbiota portal to speed data entry from images.*

Groups

- QinLab
- MocSec