# Michael C. Tripp

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## Education

### **B.S. in Computer Science and Mathematics**

WESTMINSTER COLLEGE

- Cumulative GPA: 3.875 / 4.000
- Relevant Coursework: Advanced Data Structures, Computer Graphics, Language Design & Implementation, Machine Learning, Numerical Analysis, Database Design & Development, Calculus III, Discrete Mathematics

### CompTIA Security+ ce Certification %

Сомртіа

Relevant Concepts: TCP/IP Protocols, SecDevOps (Waterfall Model, Agile Model), Network Security

### Work Experience \_

#### Lead Desktop Support Student Tech

WESTMINSTER COLLEGE ITS DEPARTMENT

- Promoted to Lead Student Tech in August 2021; supervise 6-8 Student Techs
- · Plan and coordinate team member project activity
- Provide technical support for computer software or hardware related problems
- Monitor daily performance of computer systems on campus

#### **Computer Science and Mathematics Tutor**

WESTMINSTER COLLEGE ACADEMIC SUCCESS CENTER

- Led individual or small group instruction to improve academic performance
- · Provided feedback to students using positive reinforcement techniques to encourage and build confidence in them

### Projects

#### Bouncy Bouncy - Computer Graphics Project %

WESTMINSTER COLLEGE

- Utilized the OpenGL API to develop a GUI application that displays a smaller object bouncing around an outer boundary, where both object and boundary are drawn by the user
- Implemented necessary mathematics so that object translates and rotates about its center according to angle of collision
- Incorporated additional keyboard input to modify speed and rotation of the object as it moves

#### Wi-Fi Positioning Application - Senior Capstone %

WESTMINSTER COLLEGE

- Researched the plausibility of implementing a Wi-Fi positioning system on Westminster College campus given technologies already available on campus
- Developed an application that attempts to approximate user device location on a map of Westminster College campus by scanning nearby Wi-Fi hotspots for signal stength data
- Employed Wi-Fi trilateration, the same underlying technique behind GPS, to approximate user location given these distances
- Provided potential revisions for future improved outcomes despite not achieving the desired accuracies in location estimation

### Skills \_\_\_\_

Programming	C++, Python, Java, SQL, Ruby
CS Concepts	Data Structures, Language Design, Database Design, Machine Learning
Software & Tools	GitHub, VS Code, CodeBlocks, MySQL Workbench, LaTeX (Overleaf), Microsoft Office
Project Management	Written and Oral Communication, Leadership, Teamwork, Troubleshooting, Documentation

### Personality \_\_\_\_\_

### Advocate %

INFJ-A/MELONCHOLIC PHLEGMATIC/CS

- Summary: Loves helping others while also growing as a person, valuing cooperation, sensitivity, and independence
- Strengths: Creative, Insightful, Principled, Passionate, Altruistic
- · Weaknesses: Perfectionistic, Overambitious, Sensitive to Criticism

New Wilmington, PA

Aug 2019 - May 2023

Issued Aug 2022 · Expires Aug 2025

New Wilmington, PA Feb 2020 - Present

New Wilmington, PA

Aug 2021 – May 2022

C++, OpenGL

Spring 2022

Sep 2022 - May 2023

Python