

Alexander J. Manbeck

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Education

The Pennsylvania State University

Bachelor of Science in Cybersecurity Analytics and Operations
Focus: Enterprise Technology

University Park, PA

Expected Graduation - May 2027

GPA: 3.77 / 4.0

Technical Skills

Languages: Java, Python, SQL, JavaScript, HTML/CSS

Frameworks: Metasploit, Snort, OWASP ZAP

Developer Tools: Visual Studio Code, MySQL, Oracle VirtualBox, Git, Burp Suite

Project Work Experience

Mount Hospital Database Project | *Database Developer*

September 2024 – December 2024

MySQL Workbench

- Designed and implemented a normalized database using MySQL, ensuring adherence to 3NF normalization.
- Created an Entity-Relationship Diagram and established referential integrity between tables.
- Developed optimized SQL queries to generate reports and demonstrate the database's effectiveness in answering business questions.

Music Tracker Application Capstone Project | *Java Developer*

September 2024 – December 2024

Java, SQLite

- Developed a Java-based application with a GUI to display music tracks by album, artist, genre and calculate total sales by country.
- Integrated SQL database queries to retrieve and display track and sales data dynamically.
- Applied object-oriented principles and error handling to ensure scalable and user-friendly software.

Eagle Scout Project | *Project Leader*

March 2021 – October 2022

Boy Scouts of America

- Led a 12-member team to design, fund, and build flag disposal mailboxes across Swatara Township, coordinating with the local VA and four other locations.
- Managed a \$2,000 budget, completing the project under budget with 200+ service hours.
- Collected over 1,000 flags in three months, promoting proper flag disposal practices in the community.

Activities

Red Cell Analytics Lab | *Member*

January 2025 – Present

The Pennsylvania State University

University Park, PA

- Conducted real-time social media threat analysis for THON 2025, monitoring and analyzing potential security threats, misinformation campaigns, and reputational threats.
- Applied structured analytic techniques and critical thinking to assess real-world security threats.

Competitive Cyber Security Organization | *Member*

September 2024 – Present

The Pennsylvania State University

University Park, PA

- Participated in hands-on cybersecurity exercises, technical workshops, and real-world security analysis to develop skills in ethical hacking, cryptography, and network security.*

Work Experience

Dairy Associate

May 2023 – Present

GIANT Food Stores

Harrisburg, PA

- Unloaded and organized product deliveries efficiently to ensure proper storage and freshness in the freezer.
- Rotated stock on shelves and maintained product quality and freshness, adhering to first in, first out practices.
- Assisted customers with product inquiries and locating items, while providing excellent customer service.