

Mousse Yeshitila

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EDUCATION

University of Maryland

College Park, MD

Bachelor of Science in Information Science

May 2025

SUMMARY

Aspiring Software Engineer with a strong foundation in object-oriented programming, full-stack development, and secure system design. Experienced in building scalable web and desktop applications using Python, Java, and SQL. CompTIA Network+ and AWS Cloud Practitioner certification in progress. Skilled in systems integration, data validation, and agile collaboration

SKILLS & CERTIFICATIONS

- **Programming:** Java, Python, C++, JavaScript, SQL, HTML/CSS
- **Frameworks & Tools:** Flask, Google Maps API, Git, Jupyter, Visual Studio, Eclipse, MATLAB
- **Software Development:** Object-Oriented Programming, API Design, Modular Architecture, Unit Testing, Troubleshooting
- **Networking:** TCP/IP, DNS, Routers & Switches, Network Protocols
- **Cloud:** AWS (In Progress), Google Cloud (Basic familiarity)
- **Databases:** MySQL, PostgreSQL, SQLite
- **Other:** Data Structures (Stacks, Graphs, Trees, Sorting), Agile Collaboration, Secure System Design

PROJECTS

Secure User Authentication & Credential Management System

September 2024 - November 2024

- Designed an object-oriented authentication system with real-time credential validation and secure in-memory storage.
- Modular class architecture (Manager, Checker, Generator) supported extensibility and testing.
- Implemented custom security rules and random password generation using best practices.

Euterpia – Travel Companion App

March 2024 - May 2024

- Built a responsive web app to help users explore nearby attractions based on real-time location data.
- Integrated Google Maps API and SQL backend for efficient querying and data visualization.
- Designed a clean, intuitive frontend using HTML/CSS.

Montgomery County Crime Database Design

Feb 2023 - May 2023

- Developed a relational database system for the Montgomery County Police to manage criminal reports and case statuses.
- Implemented normalization, validation constraints, and indexing for data accuracy and query efficiency.

Accessible Karting and Racing App Development

March 2022 - May 2022

- Designed a mobile app for Formula 1 fans aged 18–24 interested in affordable karting alternatives.
- Used Google Analytics to track usage patterns and iteratively improve UI/UX.

WORK EXPERIENCE

District Urgent Care

Washington, DC

Data Analyst Intern

January 2022 - May 2022

- Managed and cleaned over 5,000 patient records with 99% accuracy, ensuring data compliance and privacy.
- Collaborated with technical and medical teams to improve database design, reducing data retrieval time by 20%.
- Applied error-checking protocols and scripting tools for data integrity audits.

Certifications

- AWS Certified Cloud Practitioner(*In Progress*)
- IBM Data Science Professional Certificate(*In Progress*)
- CompTIA Network+(*In Progress*)

Leadership & Activities

- Data Science Mentor (*Volunteer*)
- **Member:** CodeBlack, Cloud Computing Club
- Data Analysis & Visualization Workshops (*Participant*)