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

- **Languages:** Java, Python, C++, JavaScript, SQL, HTML/CSS
- **Frameworks/Tools:** Flask, Google Maps API, Git, Jupyter, VS Code, Eclipse, MATLAB
- **Software Engineering:** Object-Oriented Programming, API Design, Modular Architecture, Unit Testing
- **Networking:** TCP/IP, DNS, Routers, Protocols
- **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
- Engineered a secure user authentication platform with modular class architecture (Manager, Checker, Generator).
- Implemented in-memory credential validation, encrypted password storage, and custom password policy rules.
- Designed the system for scalability, extensibility, and clean unit testing using OOP best practices.

Euterpia – Travel Companion App   March 2024 - May 2024
- Developed a full-stack web app that displays nearby attractions using real-time geolocation and Google Places API.
- Built an interactive UI with Bootstrap, live sorting/filtering, and map embeds for each location.
- Implemented dynamic data fetching, localStorage-based favoriting, and responsive design for mobile users.

Montgomery County Crime Database Design   Feb 2023 - May 2023
- Developed a relational database for local law enforcement to manage criminal cases and status updates.
- Applied normalization and validation techniques to ensure data accuracy and integrity.
- Optimized performance through indexed columns and structured query tuning.

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)*