William Lamuth

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Education

Salisbury University, BS in Computer Science — Sept 2021 – May 2025

- **Coursework:** Computer Science I, Computer Science II, Artificial Intelligence, Theory of Computation, Advanced Data Structures, System Software, Microcomputer Organization, Operating Systems

Experience

Research Intern, Horn Point Lab UMCES, MD — May 2024 – Aug 2024

- Developed SaltCast, a GIS-based web interface to track salinity data in the Chesapeake Bay
- Collaborated with a cross-functional team of developers, designers, and data scientists to create an intuitive, user-friendly interface that supports detailed data visualization and trend analysis.
- Tools Used: **HTML, CSS, PHP, Javascript**

Salisbury University Student Research Conference, Salisbury University — 2024
Seeing Salinity: A Visual Analysis of Salt Contamination in the Chesapeake Bay Area

- Delivered a comprehensive presentation on salinity trends in the Chesapeake Bay.
- Developed and implemented data visualizations of salinity levels, leveraging data from regional universities across the Eastern Shore.

Projects

SaltCast — saltcast.io

- Collaborated with universities around the Eastern Shore to store collected data in MySQL databases, utilizing Python and SQL to extract, analyze, and graphically display the information.
- Developed a full-stack application using HTML, CSS, and JavaScript, Ajax for the front end, and Flask as a REST API to incorporate graphs for dynamic data visualization.
- Tools Used: **HTML, CSS, PHP, Javascript, MySQL, Ajax, Flask, Python**

Brow Frame 101 — browframe101.com

- Collaborated with a local business owner to design and develop a responsive web page for an eyebrow tattoo studio.
- Enhanced user experience by integrating custom designs created in Figma and optimizing page performance using Astro and Tailwind CSS.
- Deployed the project using AWS for hosting and cloud services, ensuring scalability and reliability.
- Tools Used: **Astro, HTML, Javascript, Tailwind, AWS, Figma**

Move4Wellness

- Developed a user-friendly fitness tracking application for Android that allows users to log their daily activities (e.g., running, cycling, walking).
- Implemented real-time data storage using Firebase to track users' activity history, ensuring seamless data syncing across multiple devices.
- Tools Used: **Android Studio, Java, Firebase**

Technologies

Languages: C++, C, Java, JavaScript, HTML, CSS, PHP, Python

Software: MySQL, Android Studio, Visual Studio Code, FireBase, Figma, LaTex