

# William Lamuth

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## Education

**Salisbury University**, BS in Computer Science Graduation: May 2025

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

## Experience

**Web Developer Intern** | Horn Point Lab UMCES, MD May 2024 – Aug 2024

- Developed SaltCast, a GIS-based web interface, to track salinity data of **1000+** hydro facilities in the Chesapeake Bay area using HTML, CSS, JavaScript, PHP, MySQL.
- Facilitated sprint meetings, improving meeting efficiency and accelerating project planning by **50%**.
- Collaborated with a cross-functional team of developers, designers, and data scientists in an agile environment to create an intuitive, user-friendly interface that supports detailed data visualization and trend analysis.

**SUSRC** | 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 in front of an audience of **100** students and professors.
- Developed and implemented data visualizations of salinity levels, leveraging data from regional universities across the Eastern Shore.

## Projects

**SaltCast** | *HTML, CSS, PHP, JavaScript, MySQL, Ajax, Flask, Python* saltcast.io

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

**Brow Frame 101** | *Astro, HTML, JavaScript, React, Tailwind, AWS, Figma* browframe101.com

- Collaborated with a local business to design and develop a responsive website for an eyebrow tattoo studio.
- Promoted business by improving website design and implementing SEO strategies, resulting in a **15%** increase in client traffic.
- Deployed using AWS S3 & Cloudfront, ensuring at least **80%** faster page loading.

**Portfolio Website** | *Astro, HTML, JavaScript, Tailwind, AWS* williamlamuth.com

- Developed a personal portfolio website that showcases my skills, description, and projects.
- Used Astro used as an SSG framework to promote faster page loading and improved SEO, achieving a lighthouse SEO score of **91** and a performance score of **94**.
- Deployed using AWS S3 & CloudFront to improve page load times by **90%**.

## Skills & Technologies

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

**Software:** MySQL, Visual Studio Code, Firebase, GitHub, Figma, LaTeX, Android Studio

**Skills:** SCRUM, Agile development, Full-Stack Development

**Frameworks/Libraries:** React, Astro, Tailwind, Flask