

William Lamuth

✉ williamlamuth03@gmail.com | 🌐 williamlamuth.com | 🔗 linkedin.com/in/william-lamuth
🐙 github.com/Will-lamuth

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

Software 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.

PokéLLM | *HTML, CSS, Flask, JavaScript, Ollama*

github.com/Will-lamuth

- Built an AI-powered Pokémon battle assistant built using Meta's LLaMA-3.1-8B-Instruct model as its foundation and ran locally with Ollama. The assistant includes a user-friendly web interface and can be accessed in the browser via a Flask server.
- Engineered an LLM-driven pipeline improving response reliability and Pokémon move legality using RAG, post-generation filtering, and model-guided refinement.

Portfolio Website | *Astro, HTML, JavaScript, Tailwind, AWS*

williamlamuth.com

- Developed a personal portfolio website that showcases my skills, description, and projects.
- Used Astro 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