Dustin O’Brien

240-678-3366 | dustintobrien@gmail.com | github.com/Omniladder | [www.dustintobrien.com](http://www.dustintobrien.com/)

EDUCATION

Salisbury University August 2021 – May 2025

Bachelor of Science **Majors**: Computer Science, Data Science | **Tracks:** Software Engineering, AI/Algorithms

WORK EXPERIENCE

Math & Computer Science Tutor January 2024 – May 2025

*Salisbury University | C/C++, Java, Python, Bash, Javascript, PHP, MySQL*  Salisbury, MD

* Tutored and explained complex low level Math & Computer Science topics boosting exam scores **up to 35%.**
* Debugged student, simplified codebases handling errors, logical problems, and memory leaks quickly.

****Artificial Intelligence Software Intern**** June 2024 – September 2024

Salisbury University | Python, Langchain, Next.JS, SQLite, Docker, FastAPI, AWS Salisbury, MD

* Developed 2 LLM applications use in a collaborative environment to explain environmental issues simply.
* Systems include feature-rich chatbot and markdown file generator to extract client wants using transcript RAG.

****System Administration Assistant**** May 2024 – August 2024

Salisbury University | Linux, Windows, Python, Pytorch, Anaconda Salisbury, MD

* Moved, setup, and connected 44 computers across 4 new labs and assured communication with admin’s foreman.
* Created LLM based attention benchmarks using Pytorch to test HPCL computers on Salisbury and UMBC systems.

PROJECTS

****Chapp**** | Angular, Node.js, Typescript, Express.js, PostgreSQL, Docker, AWS, Tailwind August 2025

* A gamified chatting service this project uses an Angular frontend using PrimeNG component to give a colorful UI.
* Worked on Express.js, Typescript, & Postgres backend for data store, account creation, user sessions, and more.

****Testif.AI**** | Python, Langchain, Javascript, Jinja, AWS | UMBC’s Best Education, 2nd Overall September 2024

* An educational test maker for students harnesses LLM technology to write questions off slides & more.
* Worked on web frontend creating Jinja based templates with specialized features such as modifiable text.

****Lambda Check**** | Haskell, Python, SQLite, FastAPI, Jenkins, Docker | UD’s Best Financial Hack **February** 2024

* Built CI pipeline for Haskell that scan imported packages and source code for known vulnerabilities.
* Developed cabal parsing to gather packages for query backend API. Followed by creating Jenkins pipeline.

RESEARCH PRESENTATIONS

****Identfying User Wants Using LLMs**** | MIT Undergraduate Research Conference — D. O’Brien S. Presley et. al

* **An investigation on LLM techniques to distill complex transcripts. Publish in MIT undergrad journal.**

CERTIFICATIONS

****Certified Cloud Practitioner**** | Amazon Web Services **July **2025 – July 2028****

TECHNICAL SKILLS

**Technologies** |Angular, React, Next.JS, Express.JS, PostgreSQL, FastAPI, Pytorch, Jinja, Langchain, Tailwind

**Softwares** | Linux (Arch, Debian, Fedora), Git/Github, Jenkins, AWS, Docker, Nginx, Firebase, Android, Node

**Languages** | Python, Java, Javascript, Typescript, Bash, Zsh, Shell, Haskell, R, SQL, C/C++, HTML/CSS, LaTeX