Dustin O'Brien

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Education

Salisbury University — August 2021 – May 2025

GPA: 3.61/4.0 | Cum Laude | Bachelor of Science — *Salisbury, MD*

Majors: *Computer Science, Data Science*   **Minor:** *Math*   *Tracks: Software Engineering, AI/Algorithms*

Relevant 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 in a concise way.
- Systems include feature-rich chatbot and markdown file generator to extract client wants using transcipt RAG.

System Adminstration 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* — July 2025 – Present
- 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.

TestifAI | *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.

Analysis of Collision & Contact Sports Classifications | *SUSRC — D. O'Brien, K. Tranfaglia et. al*
- A ML driven research project to cluster sports as contact or collision and creation of graph visuals of findings.

Certifications

Certified Cloud Practitoner | *Amazon Web Services* — July 2025 – July 2028

Technical Skills

Technologies: Angular, React, Next.JS, Express.JS, PostgreSQL, FastAPI, Pytorch, Jinja, Langchain, Tailwind, Sk-learn
Softwares: Linux (Arch, Ubuntu, 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