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| **Dustin O’Brien** |  |
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| [www.dustintobrien.com](https://www.dustintobrien.com) | Derwood, MD 20855 |

# **Education**

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| **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**

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| **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.

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| **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.

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| **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**

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| **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.

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| **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.

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| **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**

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| **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.

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| **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**

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

# **Technical Skills**

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

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

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