

Dustin T. O'Brien

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Education:

Dean's List: Jan 2023 - December 2024

Bachelor of Science: Aug 2021 - May 2025

Major:

Computer Science - Concentration: Software Engineering, Artificial Intelligence

Data Science - Concentration: Computational

GPA: 3.59/4.0

Henson School of Science and Technology

Salisbury University, Salisbury MD

Minor: Mathematics

Work Experience:

System Administration Intern: May 2024 - Aug 2024

Salisbury University

- Orchestrated the configuration and deployment of several computer labs, ensuring seamless setup and functionality for academic purposes.
- Developed and tested the training of large language models on university computers to ensure their capability in handling the workload.
- Coordinated with university professors, system administrator, and IT specialists to ensure compliance with school guidelines.

Student Assistant Researcher: May 2024 - Aug 2024

Salisbury University

- Engineered a chatbot and document generation system powered by large language models to enhance university academics' understanding of water salinity.
- Authored and published a technical paper on these research achievements, presented at the MIT URTC.
- Collaborated with university researchers to support and organize the outlining of goals, features, and expectations for our product.

Math & Comp. Sci Tutor: Jan 2024 - Present

Salisbury University

- Simplified complex mathematical topics to undergraduate students in topics such as Calculus, Algebra, Discrete Math, and Statistics.
- Provided mentorship to both upper and lower-level students in various Computer Science courses at Salisbury University, including System Software, High-Performance Computing, Operating Systems, and Artificial Intelligence.
- Delivered tutoring to 12 to 15 students weekly, resulting in an improvement of up to 35% in exam performance.

Projects:

Lambda Check - Haskell Vulnerability Detector: Mar 2024

University of Delaware

- Built during 2024 Henhacks in a team of 4 Haskell Security detectors analyzes packages in a program and checks for vulnerabilities in them followed by checking code for potential common security flaws.
- Conceptualized and implemented novel parsing and query algorithms and structures to analyze program packages
- This software won the Bank of America - Best Financial Hack award at HenHacks 2024

Testif.Ai - LLM Based Test Generator: Sep 2024

University of Maryland Baltimore County

- Collaborated with a team of fellow college students to design and implement a website that generates tests using LLMs
- Developed a dynamic and modular front end to seamlessly integrate and display LLM outputs on the webpage
- This software won Second Best Overall Hack & Best Educational Hack at HackUMBC 2024

Celite - Cellular Automata: Jan 2024 - Present

Salisbury University

- Constructed with a team of 3 to develop a Cellular Automata Simulator website, this website contains Game of Life, Wolfram's 1D Nearest Neighbor and a novel sequential version of Wolfram's nearest neighbor.
- Worked with the professor to create clear functionality and UI so that it could be easily used by students taking newly created Math Courses and generating images for class textbooks.

See Website for More Info: www.dustintobrien.com