

Aaron Oster

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Education

University Of Delaware

B.S. in Computer Science | GPA 3.571 (4.0 scale)

Relevant Courses: Web Software Construction (Typescript), Data Mining (Python), Object Oriented Programming (C++), Data Structures (C++), Machine Learning (Python), Algorithms and Advanced Programming, Logic for Programming, Databases (SQL), Networks (Bash, Linux), Parallel Programming (C++)

Scholarship Awards: Winter Scholars, Summer Scholars, AICOE Scholars

Computer Science Experience

Fastbreak AI

Jun. 2024 - Present

Full Stack Software Engineer / Data Scientist

Python, Bash, PHP, JavaScript, SQL, React, GitHub, Linux

- Developed and implemented data extraction mechanisms from frontend interactions, transforming and structuring data for seamless integration into the database
- Automated report generation processes using Python, improving geo-location analysis and significantly reducing manual workload
- Configured and optimized Salesforce CRM for lead tracking, user engagement monitoring, and business intelligence
- Designed and implemented ORM-based solutions to facilitate communication between multiple database architectures, ensuring robust and scalable system integration
- Optimized server and client-side caching mechanisms, reducing AJAX and API call overhead to enhance performance and prevent site traffic overload

Gleghorn Biomedical Engineering Lab

Jan. 2023 - Feb. 2024

Machine Learning Engineer / Data Scientist Undergraduate Researcher

Python, Flask, Pandas, Transformers

- Delivered technical presentations at research showcases, effectively communicating findings to diverse audiences
- Developed a machine learning framework utilizing natural language processing (NLP) to enhance protein functionality prediction
- Engineered and preprocessed biological datasets to train a Large Language Model (LLM) for protein sequence analysis
- Designed and implemented a Flask-based web application, enabling interactive querying of predictive models
- Achieved 92% accuracy on the test dataset, demonstrating the efficacy of the developed predictive model

Programming Projects

Ada.ai

Mar. 2023

First Place Hen-Hacks Hackathon Project

Dart, Flutter, Git, GitHub

- Implemented OpenAI's API to enable dynamic, context-aware responses, enhancing personalized learning experiences
- Engineered the application using Dart and Flutter, leveraging Google's cross-platform mobile development framework
- Collaborated in a 36-hour hackathon environment, coordinating effectively to deliver a functional, polished final product

TimeWise

Feb. 2023

Personalized Planner

Typescript, React, Git, GitHub, JSON

- Led the development of a personalized planning web application, implementing agile software development principles
- Organized and facilitated weekly scrum meetings, delegating tasks to ensure efficient project execution
- Built an interactive and responsive React-based web interface using TypeScript, enhancing user experience and functionality

Communication Experience

Macys

Nov. 2023 - Feb. 2024

Sales Associate

- Engaged with customers using strong communication and interpersonal skills, fostering positive shopping experiences and long-term loyalty
- Resolved customer inquiries, concerns, and returns efficiently and professionally, ensuring high satisfaction and adherence to store policies