David Oduneye

davidoduneye.com | davidoduneye1@gmail.com | linkedin.com/in/dooduneye | github.com/dooduneye

Education

Northeastern University Boston, MA

Honors Bachelor of Science in Computer Science *Expected May 2025*

Relevant Coursework Web Development, Machine Learning 1, Database Management Systems, Networks, Computer Systems, Object-Oriented Design, Algorithms & Data, Fundamentals of CS I & II, Discrete Mathematics, Foundations of Cybersecurity

Activities Resident Assistant, Northeastern Powerlifting, NSBE, Generate, ColorStack

Technical Skills

Languages: Java, Python, Typescript, SQL, Racket, C++
Frameworks & Libraries: TailwindCSS, React, NextJS, Express, Pandas, NumPy, spaCy, Matplotlib, Keras
Tools: Git, Docker, MongoDB, MySQL, Postman, Hashcat, Figma, Gimp, LaTeX, Notion, IntelliJ

Experience

Genentech Inc – *NLP Data Anayst Intern* January 2023 – Present

- Developed a drug data structuring system utilizing **Transformer Models** and a Levenshtein distance lookup table to normalize and restructure unstructured text, dramatically improving data interoperability across the drug development industry.
- Utilized **Deep Learning** techniques resulting in highly accurate, consistent, and reliable vehicle standards throughout the drug development process. Achieved an accuracy rate of **93%** through statistical analysis.
- Collaborated closely with cross-functional teams to smoothly integrate the new system into existing vehicle processing workflows, contributing to the improved usability of vehicles in drug development and discovery.

Generate – *Software Engineering* September 2022 – December 2022

- Collaborated with a team of developers to analyze journal entries for mental health service, implementing **NLP** techniques such as sentiment analysis, keyword extraction, and topic modeling with **spaCy** and **scikit-learn**.
- Enhanced system accuracy and reliability by parsing **50,000+** journal entries from multiple social media sources, identifying patterns, and implementing data-driven analysis.
- Developed emotion and subject extraction models based on the latest research and insights to identify critical connections and **trigger points** across journal entries, leading to streamlined and efficient analysis and improved trigger point identification for mental health issues.

Khoury College of Computer Science – *Teaching Assistant* September 2022 – December 2022

- Conducted **4+** hours of weekly office hours to provide individualized academic support and tutoring to students, resulting in improved learning outcomes that increased student satisfaction.
- Assisted faculty in grading and reviewing assignments, ensuring timely and accurate feedback for students.

Projects

SongGPT 2023

- Developed a dynamic web application using **Next.js**, **TailwindCSS**, and **Typescript** that generates personalized song recommendations based on user-inputted text prompts, leveraging **GPT-4** language model for processing and analysis.
- Integrated the application with **Spotify API**, requiring user authentication via **OAuth2.0** to access a vast collection of music for generating recommendations.

Personal Website 2022

- Developed a visually appealing, mobile-responsive personal website from scratch using server-side rendering (**SSR**) and markdown components (**MDX**) to showcase personal projects and blog posts. Leveraged SSR to achieve fast and reliable page rendering for users..
- Integrated Google Analytics for insights into user behavior and continuous improvement.

RateMyDorm 2022

- Developed a secure, responsive full-stack web application in **Next.js** that allows college students to view and rate college dormitories and provide feedback.
- Integrated the **Collegescorecard API** to source college statistics (e.g., student body size, ownership, cost).
- Implemented a polyrepo architecture using **Express.js** to create APIs that allowed for CRUD operations on **MongoDB** schema objects.