

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

January 2023 – Present

- Developed a vehicle structuring system utilizing **Transformer Models** and a Levenshtein distance lookup table to normalize and restructure unstructured text, dramatically improving vehicle 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 Engineer

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 2+ 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.

Northeastern University – Resident Assistant

September 2022 – December 2022

- Cultivated community among **1000+** residents through programming and upkeep of the complex housing. Responded to questions and concerns, managed conflicts, and ensured community safety with productive de-escalation tactics.

PROJECTS

- SongGPT (2023)** Developed a dynamic web application integrated with the **Spotify API** to generate songs from text inputs using **Next.js**, **TailwindCSS**, and **Typescript**.
- Personal Website (2022)** Designed a visually striking, responsive, and user-friendly personal website from scratch, while taking advantage of **SSR** and **Markdown Components** to deliver fast and reliable page rendering to showcase personal projects and blog posts.
- RateMyDorm (2022)** Built a responsive and secure full-stack web application used to view, rate, and comment on college dormitories by college students, implementing **Next.js**, and using the **Collegescorecard API**. Utilized **Express.js** to create APIs for seamless **CRUD** operations on **MongoDB**, enabling streamlined data retrieval, storage, and manipulation.
- Image Manipulator (2022)** Created a proto-photoshop program using **Java Swing** and the Model-View-Controller architecture. Led the development abstraction of effect classes to optimize creation of editing tools and developed over 10 pre-built image effects.