

# David Oduneye

[davidoduneye.com](http://davidoduneye.com) | [davidoduneye1@gmail.com](mailto:davidoduneye1@gmail.com) | [linkedin.com/in/dooduneye](https://linkedin.com/in/dooduneye) | [github.com/dooduneye](https://github.com/dooduneye)

## EDUCATION

### Northeastern University

*Honors Bachelor of Science in Computer Science*

Boston, MA

*Expected May 2025*

<b>Relevant</b>	Web Development, Machine Learning 1, Database Management Systems
<b>Coursework</b>	Networks, Computer Systems, Object-Oriented Design, Algorithms & Data
<b>Activities</b>	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, IntelliJ

## EXPERIENCE

### Genentech Inc – NLP Data Anayst Intern

January 2023 – June 2023

- 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 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 **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.

## INTERESTS

Powerlifting, Hiking, Christopher Nolan films, Notion, Cinematography