

Noam Molloy

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EDUCATION

Brandeis University, Waltham, MA

Aug 2021 - Dec 2024

B.S. in Computer Science, Minors in Linguistics and Hebrew - GPA: 3.86

- **Relevant Courses:** OOP, Data Structures & Algorithms, Discrete Math, Statistics, Theory of Computation, Natural Language Processing, Linear Algebra, Operating Systems, Fundamentals of SWE, Web Dev, AI, Information Visualization, Human-Computer Interaction, Security, Compiler Design
- **Awards:** Provost Scholarship, Dean's List (Every semester)

WORK EXPERIENCE

Full-Stack Developer Summer Intern, SueApp, Tel-Aviv, Israel

June 2024 - Aug 2024

- Designed and implemented new web pages in React to enhance user experience and functionality on the company website
 - Redesigned pages with user experience in mind and frequent communication with the team throughout the design process to ensure alignment with company goals
- Worked with a SOAP API to retrieve case data and submit new cases to a court system, a REST API for service provider communication, and managed the information being stored in the company database
- Identified, troubleshooted, and fixed bugs to improve reliability and performance

Data Scientist, Office of Research Administration at Brandeis University, Waltham, MA

Jan 2023 - Jan 2024

- Conducted machine learning analysis to predict the likelihood of research proposals being funded by institution
 - Data cleaning and preprocessing, utilized scikit-learn machine learning models
- Built and maintained a web app to allow for user interaction with the machine learning model
- Took initiative reorganizing file system to standardize and future-proof
- Implemented NLP techniques for topic modeling and keyword extraction
- Created data visualizations to allow supervisors make administrative decisions

Teaching Assistant, Brandeis University, Waltham, MA

Jan 2022 - Present

- **Advanced Programming Techniques in Java (COSI 12b):** Assist the professor in a Java course for topics including SWE concepts, object oriented design, design patterns, and data structures
 - Assist in running the class, creating labs and issuing them to the class
- **Intro to Problem-Solving in Python (COSI 10a):** Assist the professor in an intro Python course for first-time programmers
- Hold office hours to support students on programming assignments and answer questions
- Create new assignments and write JUnit tests for grading
- Lead review sessions

PROJECTS / EXTRACURRICULARS

Docket Project

March 2024

- Designed a gamified event finding socialization app for an HCI course
- Conducted user research and usability testing to refine app features, ensuring an intuitive user experience and increased engagement

Webkinz Personal Project

Nov 2022

- Designed and implemented a fully automated solution to a word game in Webkinz using image processing to capture all letters on screen, generating an undirected graph, implementing Dijkstra's algorithm to find all possible words, and ranking each word based on score
- Used a multiprocessing and multithreading approach to greatly increase efficiency from about 20 minutes to a few seconds

SKILLS

Technical Skills:

Programming Languages: Python, Java, JavaScript, TypeScript, JQuery, HTML, SCSS, SQL, R

Frameworks/Libraries: React.js, Express.js, Node.js, Flask, pandas, REST APIs, MongoDB, Git

Softwares: Jira, Excel/Google Sheets, Tableau, Photoshop

Languages: English (Native), Hebrew (Fluent), French (Proficient)

Soft Skills:

Problem-solving, User-Oriented, Communication, Organization, Adaptability, Creativity, Initiative