

# Vidyut Ramanan

(617) 817- 9252 | Boston, MA | Availability: May - December 2024

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## Education

**Northeastern University**, Boston, MA

Sept. 2021 - Present

**Khoury College of Computer Sciences** (Candidate for Bachelor of Science degree in Computer Science)

May 2025

*Academic Honors:* **GPA 3.85/4.0**, Dean's List, Dean's Scholarship

*Related Coursework:* Algorithms and Data, Object Oriented Design, Foundations of Data Science, Machine Learning and Data Mining, Computer Systems, Natural Language Processing, Linear Algebra

## Technical Skills

**Languages:** C# | Java | Python | JavaScript | TypeScript | CSS | HTML | SQL | C

**Technologies:** REST API | React.js | React Native | Angular | .NET | JUnit | FastAPI | Expo | Bootstrap

**Software/Tools:** Git | GitHub | Node.js | SQL | SQL Server | Firebase | Figma

## Work Experience

**Millipore Sigma**, Danvers MA

Jul. 2023 - Dec. 2023

*Software Engineering Coop*

- Utilized .NET, C#, SQL, Angular, HTML, JavaScript, TypeScript and CSS for full stack development
- Developed a website that generates 7 types of reports from a SQL database of part data, available in 2 formats
  - Provided information in minutes that otherwise would have taken up to 48 hours to gather
  - Completed project ahead of timeline and added extra features such as error logging and live updates
- Enhanced an existing app through an extensible script to clean completed job data from Sharepoint backend
  - Utilized SharePoint API to seamlessly archive 1000 rows of data a day to SQL tables
- Designed website for sales personnel to submit custom requests through a form
  - Pursued a 50% reduction in requests by reducing duplicates, technical errors, and incomplete submissions
  - Preserved application state with SQL backend enabling retrieval and modification of requests
  - Implemented an approval workflow through automated emails notifying stakeholders
- Led meetings with nontechnical stakeholders to ensure project alignment with goals and gather feedback

**Northeastern University**, Boston, MA

Sept. 2022 - May 2023

*Teaching Assistant for Fundamentals of Computer Science I*

- Mentored a lab of 35 students, explained challenging introductory concepts to students
- Coordinated with a team of TA's to ensure widespread availability of office hours and prompt assignment grading

## Projects

**Clothing Recommendation App (Ongoing) - React Native, Node.js, Firebase, Expo**

October. 2023

- Developing an app that allows users to upload their clothes, creating a digital wardrobe for easy management
- Incorporating artificial intelligence algorithms to analyze uploaded clothing and provide recommendations
- Utilizing React Native to ensure seamless performance and user experience across both Android and iOS

**Spotify Song Reaction Website - React.js, Node.js, Supabase**

Feb 2023

- Developed a website for users to post songs they are listening to and react with emojis to other people's songs
- Utilized React.js to develop the front end due to the reusability of components to speed up development
- Utilized Supabase to store posted songs for a feed due to its compatibility with React and Spotify API

**Machine Learning NBA Draft Prediction - Supervised Machine Learning, Exploratory Data Analysis**

Dec. 2022

- Implemented 3 machine learning models, tuned hyperparameters, and compared ability to predict drafted players
- Achieved a 0.98 classification accuracy and ranked the most important features used for classification
- Cleaned and prepared a dataset of 61061 entries using Python libraries such as NumPy, Pandas, and Scikit-learn.

## Hobbies and Interests

Skateboarding, Drawing, Fitness, Unicycling, and Guitar