

# Ahan Jain

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## EDUCATION

**Northeastern University**, Boston, MA | Khoury College of Computer Sciences Expected: May 2027  
*Candidate for a B.S. in Computer Science, Concentration in AI*

**Honors:** GPA: 3.72/4.00 | Dean's List | John Martinson Honors Program

**Relevant Coursework:** Machine Learning and Data Mining 1 | Algorithms and Data | Object Oriented Design | Computer Systems | Introduction to Databases

## SKILLS

**Languages:** Python | Java | C | JavaScript | SQL | R | Racket | Assembly | HTML | CSS

**Frameworks & Libraries:** Pandas | NumPy | Matplotlib | Scikit-learn | TensorFlow | NLTK | Keras |

React | Flask | Express.js

**Tools & Platforms:** Git | GitHub | IntelliJ | Eclipse | VS Code | PostgreSQL | Jupyter | RStudio

## PROFESSIONAL EXPERIENCE

**Darby**, Boston, Massachusetts July 2025 – Dec 2025  
*Incoming Software Engineer Intern (Co-op)*

- Develop a user-facing web application using Elixir and Phoenix and refine AI-powered features to improve automation accuracy and user experience
- Collaborate with senior engineers and participate in product meetings to discuss business objectives
- Implement administrative functionality to optimize internal tools and support customer-facing workflows

**Oasis NEU**, Boston, Massachusetts Jan 2024 – April 2024  
*Software Developer*

- Collaborated in a team of 4 to build "Husky Laundry," a web application that delivered real-time updates on laundry machine availability to hundreds of Northeastern students weekly across 20 dormitories
- Developed Python scripts that analyzed usage data from multiple buildings and significantly improved operational insights, resource allocation, and aided in predictive maintenance

**Net Solutions**, Chandigarh, India May 2021 – June 2021  
*Software Engineer Intern*

- Built a Flask-based web app using the Spotify Web API to explore artists, albums, and analyze audio features like tempo and energy
- Designed Python backend with dynamic endpoints and JSON parsing for interactive song-level insights and visualizations

## PROJECTS

**Neural Next-Word Prediction**, Python (Keras, TensorFlow, NLTK, NumPy) April 2025

- Developed and trained a stacked LSTM neural network to predict next words on a 100K-token news dataset, using NLTK tokenization and one-hot encoding across ~2,000 unique tokens
- Generated next-word predictions from seed phrases using top-k sampling after training for 300 epochs to produce grammatically coherent and varied sentence continuations

**Three Trios**, Java Sep 2024 – Oct 2024

- Implemented a dynamic card game with color-based grid mechanics and custom flipping rules for territory control, supporting single-player, multiplayer, and AI opponents
- Applied MVC architecture and object-oriented design principles which reduced code complexity by 40% and significantly improved scalability for future rule extensions and AI logic

**Shannon Game**, DrRacket (ISL+) October 2023

- Developed a Racket-based logic puzzle simulating electrical connectivity in a circuit using depth-first search
- Built an interactive grid visualizer highlighting active connectivity paths to demonstrate circuit behavior and reinforce traversal logic

## INTERESTS

Instruments & Vocals | Cryptography & Puzzles | Strength Training | Soccer | Acting | Strategy & FPS Games