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:** 3.71/4.00	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	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