

Ahan Jain

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EDUCATION

Northeastern University

B.S. in Computer Science, John Martinson Honors Program

Boston, Massachusetts

Expected Graduation, May 2027

- **Concentration:** Artificial Intelligence
- **GPA:** 3.72/4.00, *Dean's List*
- **Related Coursework:** Machine Learning and Data Mining 1, Artificial Intelligence, Algorithms and Data, Introduction to Databases, Computer Systems, Object Oriented Design, Theory of Computation

EXPERIENCE

Darby

AI Engineer Co-op

Boston, Massachusetts

July 2025 – Dec 2025

- Built and maintained Medicare coverage microservices using Spring Boot, Node.js, and FAISS semantic search that processed 6,850+ policies, reducing manual research by 99% with 95%+ deterministic resolution and improving reliability through CI/CD workflows and unit test coverage.
- Designed and shipped a real-time admin-facing analytics platform for 15+ organizations using Angular, Spring Boot, PostgreSQL, and JWT-based auth with refresh-token rotation, enabling customer health scoring, usage intelligence, expansion opportunity detection, and churn risk mitigation.
- Applied LLM APIs (Claude) with pdf-parse OCR and JSON extraction to create a scalable, confidence-scored document separation pipeline supporting concurrent 10+ file batch processing for high-volume workflows.

Oasis NEU

Software Engineer

Boston, Massachusetts

Jan 2024 – April 2024

- Built “Husky Laundry” as part of a 4-person team using React, Flask, and Python pipelines, enabling real-time laundry machine availability for hundreds of students across 20 dorms.
- Integrated Python data-processing pipelines to analyze multi-building usage patterns, improving operational insights, resource allocation, and predictive maintenance.

Net Solutions

Software Engineering Intern

Remote

May 2021 – June 2021

- Used Flask and the Spotify Web API to build a web app that let users explore artists, albums, and audio features such as tempo and energy.
- Implemented a Python backend with dynamic endpoints and JSON parsing to deliver interactive song-level insights and visualizations.

PROJECTS

Neural Next-Word Prediction

Independent Project

Boston, Massachusetts

April 2025

- Trained a stacked LSTM model using Keras/TensorFlow on a 100,000-token news dataset, applying NLTK tokenization and one-hot encoding across approximately 2,000 tokens.
- Utilized top-k sampling on trained models to generate varied, grammatically coherent next-word predictions from seed phrases after training for 300 epochs.

Three Trios

Team Member

Boston, Massachusetts

Sept 2024 – Oct 2024

- Used Java to implement a color-grid card game with custom territory-control rules, supporting single-player, multiplayer, and AI opponents.
- Enforced MVC architecture and object-oriented design principles to reduce code complexity by 40% and improve scalability for future rule expansions and AI logic.

SKILLS

Languages: Python, Java, C, JavaScript, TypeScript, SQL, Elixir, R, Racket, Assembly

Frameworks & Libraries: Spring Boot, Node.js, Angular, React, Flask, Express.js, TensorFlow, scikit-learn, Pandas, NumPy, Matplotlib, NLTK, Keras

Tools & Platforms: Git, GitHub, Docker, PostgreSQL, Jupyter Notebook, IntelliJ, VS Code, Eclipse

Operating Systems: macOS, Linux, Windows

Interests: Cryptography and Strategy Games, Music (Vocals, Piano, Guitar, Drums), Strength Training, Soccer