Ahan Jain

jain.aha@northeastern.edu | (857) 328-5914 | github.com/ahan-jain | linkedin.com/in/ahanjain

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

PROFESSIONAL EXPERIENCE

Darby, Boston, Massachusetts — July 2025 – Present

AI Engineer Co-op

- Leveraged Spring Boot, Node.js, and FAISS semantic search to build Medicare coverage microservices 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.
- Developed 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 the Claude API with pdf-parse OCR and JSON extraction to create a scalable, confidence-scored PDF-separation pipeline supporting concurrent 10+ file batch processing for high-volume workflows.

Oasis NEU, Boston, Massachusetts — Jan 2024 – Apr 2024

Software Engineer

- 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, Remote — May 2021 – June 2021

Software Engineer Intern

- 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 — April 2025

- Trained a stacked LSTM model using Keras/TensorFlow on a 100k-token news dataset, applying NLTK tokenization and one-hot encoding across ~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, — Sep 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, SQL, TypeScript, Elixir, R, Racket, Assembly, HTML, CSS

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

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

Operating Systems: Linux, macOS, Windows