

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 | TypeScript | Elixir | R | Racket | Assembly | HTML | CSS
Frameworks & Libraries: Pandas | NumPy | Matplotlib | Scikit-learn | TensorFlow | NLTK | Keras | React | Flask | Express.js | Angular | Spring Boot
Tools & Platforms: Git | GitHub | Docker | IntelliJ | Eclipse | VS Code | PostgreSQL | Jupyter Notebook | RStudio

PROFESSIONAL EXPERIENCE

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

- Architect production-grade microservices with Spring Boot, Angular, and SQL, implementing JWT and header-based authentication, and RESTful APIs for secure, efficient workflows
- Build AI-powered document processing pipelines using LLM APIs to automate content analysis, improve data extraction accuracy, and reduce manual review time by 80%
- Contribute to system architecture design reviews with senior engineers, implementing solutions that enhance service reliability and scalability across multiple product lines

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

INTERESTS

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