

# Aarav Raina

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Available January-August 2026 | Local: Boston | Open to relocation anywhere in the United States

## EDUCATION

### Northeastern University

Boston, MA

*Bachelor of Science in Computer Science & Business Administration (Finance); GPA: 3.51 Sep. 2024 – May 2028*

- Coursework: Algorithms, Data Structures, Object Oriented Design, Discrete Mathematics, Linear Algebra, Calculus, Statistics

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, SQL, HTML/CSS, LaTeX

**Technologies:** React, Flask, FastAPI, pandas, NumPy, scikit-learn, PostgreSQL, SQLite, Redis

**Tools:** Git, Docker, AWS, Render, Linux/Unix, Postman, RESTful APIs, CI/CD, Cursor, Notion

## EXPERIENCE

### Chief of Internal Insights

Jul. 2025 – Present

*Generate Product Development Studio*

*Boston, MA*

- Building data analytics infrastructure from scratch for 150+ member organization; leading analytics team with direct reports managing sub-teams across multiple project verticals
- Architecting Python pipelines (pandas, NumPy) tracking engagement metrics with PostgreSQL/Redis backend
- Developing alumni tracking system connecting members with 10,000+ alumni using BeautifulSoup web scraping and Slack API integration; automating outreach campaigns resulting in 40+ mentorship connections
- Presenting weekly insights driving strategic decisions on resource allocation; building React/Chart.js dashboards accessed by leadership to monitor KPIs and make data-driven program improvements

### Software Engineering Intern

Jun. 2024 – Aug. 2024

*GetFeedz Inc.*

*Remote*

- Developed responsive React components with JavaScript that reduced page load time by 35% for 10K+ daily active users through code optimization and lazy loading implementation
- Debugged complex state management issues using Chrome DevTools and React Developer Tools, successfully decreasing application crash rate from 12% to 3% over the internship period
- Wrote comprehensive unit tests using Jest framework achieving 85% code coverage and collaborated in Agile environment using Jira for sprint planning and GitHub for code reviews

### Data Analysis Research Assistant

May 2024 – Jul. 2024

*International Hellenic University*

*Remote*

- Designed efficient algorithms using Python and NumPy processing 1M+ healthcare records in under 30 seconds
- Reduced query latency by 10x through PostgreSQL database indexing and query optimization techniques
- Built fault-tolerant automation tools using Python scripts achieving 99.5% reliability and saving 20+ hours weekly

### Executive Director

Nov. 2023 – Jul. 2024

*NutriCycle Environmental Initiative*

*Stamford, CT*

- Founded and led initiative mobilizing 200+ students across multiple organizations to reduce food waste by 30%
- Built cloud-based tracking platform using Flask and PostgreSQL, deployed on Render with 99% uptime

## PROJECTS

### Jarvis - AI Personal Assistant | Python, FastAPI, React, PostgreSQL, Redis, Docker

Jul. 2025 – Present

- Building microservices architecture with FastAPI and implementing real-time notifications using WebSockets
- Integrating LLMs for natural language processing and containerizing with Docker for efficient deployment
- Implementing error handling, logging, and monitoring to ensure system reliability and debugging capabilities

### Stock Market Analysis Tool | Python, Flask, React, pandas, scikit-learn, yfinance API

Aug. 2024 – Oct. 2024

- Built full-stack application with ML models for stock prediction; implemented Redis caching reducing API calls by 70%
- Optimized data processing achieving 5x performance improvement for historical market data analysis