

Ashish Thomas

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EDUCATION

Northeastern University

Sep. 2022 – May 2026

Bachelor of Science in Computer Science, Concentration in AI

Boston, MA

Honors: GPA: 3.8/4.0, Dean's List

Courses: Artificial Intelligence, Machine Learning, Algorithms and Data, Object Oriented Design

Activities: South Asian Intervarsity Community Leader, Intramural Tennis & Pickleball

EXPERIENCE

Data Analytics and Engineering Co-op

Jan. 2024 – June 2024

Massachusetts Bay Transportation Authority

Boston, MA

- Led extraction and transformation of procurement and financial data by building Tableau and Trello workflows.
- Rebuilt ETL pipeline with Python, Pandas, SQL, and Crontab in Linux environment to handle 100,000+ records.
- Wrote Selenium scripts to automate collection of rail station reports, improving maintenance analysis time 60%.
- Developed a time-series forecasting model with XGBoost and MLForecast to predict future inventory needs.
- Managed KPI dashboards with visualization of purchase order fulfillment across 5 departments with Python.

Teaching Assistant

Sep. 2024 – Present

Khoury College of Computer Sciences

Boston, MA

- Mentoring 400+ first year students enrolled in the Khoury College at Northeastern University.
- Facilitating discussions about software engineering and data science best practices across workshops and meetings.
- Grading student submissions in shell scripting and full-stack development while providing feedback and resources.

Software Developer

Aug. 2024 – Present

Scout Studio

Boston, MA

- Working with a diverse team of developers and designers to improve the customer experience for [Rooted Living](#).
- Converting Figma wireframes to an engaging UI/UX through the Shopify platform with HTML/CSS/JavaScript.
- Fixing the client's website performance and interactivity with a ticket system, weekly sprints, and stand-ups.

Software Developer

Sep. 2023 – Dec. 2023

Oasis

Boston, MA

- Led a 4 month agile workflow with sprint planning to build a full-stack application for coffee shop wait times.
- Took the lead on backend development with Django and Python; explored the Grubhub API for customer queues.
- Improved project lifecycle timing 25% by encouraging designs in Miro, version control in GitHub, and user testing.
- Presented project implementation to a panel of developers and mentors for suggestions on feature enhancement.

PROJECTS

[Kicks](#) | *React, MongoDB, Flask, Hugging Face, AWS*

June 2024 – Sep. 2024

- Designed and deployed a full-stack web application for shoe recommendations with React and Tailwind CSS.
- Built a REST API microservice with Flask, Nginx, and Gunicorn for retrieval of 100+ shoes, hosted on AWS EC2.
- Applied prompt engineering techniques with a Llama 3.1 LLM via Hugging Face's Inference API for shoe options.
- Stored users' shoe searches in MongoDB and retrieved them on Gallery page through an Express backend.

[Playlist Recommender](#) | *Spotify Web API, Python, Pandas, NumPy, SciKit-Learn*

Jan. 2024 – May 2024

- Extracted 60,000 unique playlists with Spotify's Web API using Python and the Pandas/OS libraries.
- Analyzed relationships between audio features of existing playlist songs with Seaborn for feature engineering.
- Compared algorithm performance across Random Forest, SVM, and KNN Classifiers trained with SciKit-Learn.
- Tuned with GridSearchCV for 20% accuracy boost, and tested model performance with real users' playlists.

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, TypeScript, C, HTML/CSS
Frameworks: React, Node.js, Flask, Django, JUnit, Express, Selenium
AI & Cloud: AWS, Hugging Face, WatsonX, OpenAI
Developer Tools: Git, Jira, VSCode, IntelliJ, Eclipse, Miro, Trello
Libraries: Pandas, NumPy, Matplotlib, SciKit-Learn, TensorFlow, XGBoost