

Nathaniel Sawant

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EDUCATION

Northeastern University

Bachelor of Science in Computer Science, Concentration in Artificial Intelligence

Boston, MA

Sep. 2021 – May 2025

EXPERIENCE

Software Engineer

Generate Product Development at Northeastern University

Sep. 2023 – Present

Boston, MA

- Developed highly reusable React components for front-end made by design team.
- Designed backend APIs using MongoDB, Go, and the Echo web framework.

Software Data Engineer

Fidelity Investments

Jan. 2023 – Jun. 2023

Boston, MA

- Developed tool rapid prototyping with company code with VSCode/Jupyter Lab integration.
- Interacted with FastAPI based backend that allowed for utilized natural language processing.
- Utilized the ETL process to extract and save the price, quantity, etc., for 65,000 products from multiple sites.
- Created a Tableau dashboard to help visualize how 100+ databases are utilized who, when, and how.

Project Lead

IEEE Micromouse Team at Northeastern University

Oct. 2022 – Mar. 2023

Boston, MA

- Coordinated weekly meetings with five member team for a maze-solving robotics competition.
- Distributed tasks to different team members with different timelines to meet the set deadlines.
- Spearheaded the algorithms development of Arduino-based robot with sensor hardware in C/C++.

Research Assistant

Rehabilitation Games & Extended Reality Lab

Oct. 2021 – Aug. 2022

Boston, MA

- Utilized Unity 3D engine, OpenXR, and Photon Unity Networking frameworks for development.
- Designed backend system in C# to synchronize both local and across network.
- Assisted in development of eye-tracking data collection of participants in a database.

PROJECTS

URL Shortener | GCP, Express, MongoDB, Node.js, Javascript, HTML/CSS, Git

Aug. 2022

- Designed and deployed a personal URL shortener on a Google Cloud Linux VM.
- Used a Node.js backend with Express API to create and redirect the shortened URL.

Brand Presence Tools | Azure Cognitive Services, OpenCV, Python, Git

Jul. 2022

- Created analytics tool to detect brand presence in sponsored videos to measure brand metrics.
- Developed as a prototype for Disrupt's Finnovate startup program, winning first place.

Image Processing | Java, Swing Framework, Git

Jun. 2022

- Designed command line and graphical user interface photo for basic manipulation software.
- Performed extensive testing with JUnit for validation/reliability and used Javadocs documentation.

TECHNICAL SKILLS

Languages: Go, Java, Python, C/C++, SQL (Oracle, SQLite), Java/TypeScript, HTML/CSS, R

Frameworks: React, Node.js, JUnit, FastAPI, Express

Developer Tools: Git, Docker, Amazon Web Services, Google Cloud Platform, VS Code, Visual Studio

Libraries: pandas, NumPy, Matplotlib, OpenCV

ACTIVITIES

Leadership: Northeastern University IEEE Chapter (President)

Clubs: NUIEEE (Professional Organization), NUHOC (Outdoors Club), NUPiC (Photography Club), Generate