Nathaniel Sawant

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EDUCATION

Northeastern University, Khoury College of Computer Sciences   Boston, MA
Bachelor of Science in Computer Science, Concentration in Artificial Intelligence   *Sep. 2021 – May 2025*
GPA: 3.7/4.00
Leadership: Northeastern University IEEE Chapter (President, *Fall 2023*)
Clubs: NUIEEE (Professional), NUHOC (Outdoors), NUPiC (Photography), Generate (Product Development)

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, AWS, GCP, NoSQL (MongoDB), VS Code, Visual Studio
Libraries: OpenCV, pandas, NumPy, Matplotlib

PROFESSIONAL EXPERIENCE

Software Data Engineer   Jan. 2023 – Jun. 2023
Fidelity Investments   *Boston, MA*
- Leveraged the ETL process to extract/save dozens of data points for 65,000 items from multiple sites.
- Built Tableau dashboard to help visualize how 100+ databases are used when, how and by whom.
- Developed tool for rapid prototyping using company code with VSCode/Jupyter Lab integration.
- Integrated frontend with backend API powered by HuggingFace NLP transformer for <2 second searches.

Research Assistant   Oct. 2021 – Aug. 2022
Rehabilitation Games & Extended Reality Lab   *Boston, MA*
- Assisted in design of database for data collection of participants' eye-tracking captured at 100Hz.
- Utilized Unity 3D engine, OpenXR, and Photon Unity Networking frameworks for development.
- Overhauled backend system in C# to synchronize both local and across network.

EXTRACURRICULAR EXPERIENCE

Software Engineer   Sep. 2023 – Present
Generate Product Development at Northeastern University   *Boston, MA*
- Implemented backend APIs using MongoDB, Go, and the Echo web framework.
- Engineered dozens of highly reusable React components for front-end made by design team.

Project Lead   Oct. 2022 – Mar. 2023
IEEE Micromouse Team at Northeastern University   *Boston, MA*
- Spearheaded algorithms development of Arduino-based robot with sensor hardware in C/C++.
- Coordinated weekly meetings with 5-member team for a maze-solving robotics competition.
- Distributed tasks amongst 5 members with different timelines to meet the set deadlines.

PROJECTS

URL Shortener | *GCP, Express, MongoDB, Node.js, Javascript, HTML/CSS, Git*   Aug. 2022
- Deployed a personal URL shortener on a Google Cloud Linux VM.
- Built Node.js backend with Express API to generate and redirect shortened URLs.

Brand Presence Tool | *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 Manipulation Program | *Java, Swing Framework, Git*   Jun. 2022
- Coded command line and graphical user interface photo for basic manipulation software.
- Performed extensive testing with JUnit for validation/reliability and made Javadocs documentation.