

Neeti Desai

Top Secret security clearance in progress

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EDUCATION

Northeastern University

Boston, MA

Bachelor's of Science in Computer Science and Behavioral Neuroscience

Sept. 2021 - May 2025

GPA: 3.99/4.0 | Honors: Honors Program, 2024 Sears B. Condit Award, Dean's List 2021, 2022, 2023, 2024

TECHNICAL KNOWLEDGE

Languages: Python, Java, SQL, Typescript, Javascript, HTML, CSS

Frameworks/Libraries: React.js, React Native, Node.js, Express.js, MySQL, PostgreSQL, DynamoDB, MongoDB, Django, OpenCV, PySpark, Tensorflow, NumPy, Pandas, Google Firebase, AWS Lambda, AWS S3, AWS SES, Jest

Tools/Softwares: Docker, GitHub, GitHub Actions, GitLab CI/CD, Jira, SVN, Confluence, Agile Methodologies, Postman, Swagger

IDEs: VSCode, IntelliJ, PyCharm, Eclipse

PROFESSIONAL EXPERIENCE

Python Software Engineer Co-op, MORSE Corp, Cambridge, MA

Jan. 2024 - Aug. 2024

- Designed, developed, and deployed 15+ user-driven features for computer vision testing Python software packages in the JATIC project, contributing to three MVPs for the Chief Digital and AI Office.
- Utilized PySpark to optimize ETL pipelines and execute complex data transformations.
- Integrated packages within existing machine learning pipelines. Developed features to optimize model performance by identifying mislabeled data and classifying data difficulty within training sets.
- Actively contributed in Agile ceremonies, including daily stand-ups, sprint retrospectives, and feature demos.
- Effectively leveraged software development best practices, achieving 100% test coverage of software capabilities with unit and integration tests and writing robust end user documentation utilizing the Diataxis framework.

Software Engineer Co-op, E Ink, Billerica, MA

Jan. 2023 - Jul. 2023

- Independently designed and developed software to view color intensity and transitions on early-stage electronic ink panel prototypes, using Python and OpenCV in a Linux environment. Integrated onto panel drivers and oversaw release.
- Led experimental effort to display videos on panels, writing Python scripts to experiment with transition times.
- Worked with a cross-functional team of 5 to develop software to demo prototype capabilities for customers, incorporating low-level Bash scripting for automation and system-level tasks.
- Identified an opportunity and completed transition of filesystem based code versioning process to SVN.

Discrete Structures Teaching Assistant, Northeastern University, Boston, MA

Sep. 2022 - Dec. 2022

- Hosted weekly office hours and helped an average of 15 students per session. Graded assignments and exams.

Undergraduate Research Assistant, Movement Neuroscience Laboratory, Boston, MA

Dec. 2021 - Present

- Effectively used Matlab to create graphs for research publications. Assisted with literature reviews and participant recruitment.

PROJECT EXPERIENCE

Stack Overgram | Typescript, React.js, MongoDB

Oct. 2024 - Dec. 2024

- Co-developed a Stack Overflow-inspired web app enabling Q&A, user following, and profile customization.
- Utilized WebSockets, enabling real-time updates across clients. Wrote unit and integration tests using Jest.
- Designed and developed 10+ RESTful API endpoints using TypeScript, integrating with MongoDB.
- Implemented Firebase Authentication to provide secure user registration, login, and session management.

Green Infrastructure Boston | Typescript, React.js, DynamoDB

Sep. 2024 - Dec. 2024

- Collaborated with Code4Community and the City of Boston on a web app for the "Adopt Green Infrastructure" program, enabling residents to maintain local green spaces. Developed 10+ RESTful API endpoints in TypeScript with DynamoDB.
- Leveraged AWS Lambda and SES for automated email notifications.

LEADERSHIP AND INVOLVEMENT

Technical Lead, Code4Community

Sep. 2022 - Present

- Leading a team to develop an iOS app helping Boston residents find shelters using Typescript, React Native, and DynamoDB.
- Plan sprints, write tickets, and communicate with project and design leads to ensure the product matches the client's vision.