

Neil Agrawal

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EDUCATION

Northeastern University

Sep 2022 – May 2026

Khoury College of Computer Sciences

GPA: 3.81/4.0

Bachelor of Science in Computer Science; Concentration in Artificial Intelligence

Relevant Courses: Fundamentals of Computer Science 1 & 2, Discrete Structures, Object-Oriented Design, Algorithms & Data, Foundations of Data Science, Systems, Mathematics of Data Models, Foundations of Cybersecurity, Linear Algebra, Machine Learning 1, Logic and Computation

EXPERIENCE

DevOps Software Engineer Co-op

Jul 2024 – Dec 2024

Wolters Kluwer

Waltham, MA

- Refactored custom Kubernetes controller handlers, including secret management, GitOps repository configuration, and RBAC automation, improving reliability with incremental reconciliation logic and robust handler updates; introduced comprehensive unit testing using Ginkgo to ensure stability.
- Overhauled cluster management web app, fully refactoring React components, implementing SSO authentication, and streamlining Azure pipelines to unify frontend and API deployments.
- Introduced dynamic pod auto-reload capabilities in Nginx Helm blueprints, improving deployment stability.
- Created unit-tests for Helm library chart and strengthened CI/CD processes by integrating unit test execution into build pipelines.

Web Development Internship

Jun 2023 – Aug 2023

TJC UK

Feltham, United Kingdom

- Spearheaded the complete redesign of the Rising Auctions page built with Salesforce Commerce Cloud, identifying key design issues and implementing a full-scale refactor, improving user experience and functionality.
- Developed expertise in source control, remote team collaboration, and Agile methodologies through active participation in Scrum sprints.

Web Development Internship

May 2022 – Aug 2022

ShopLC DE

Dusseldorf, Germany

- Spearheaded the transition of email services to a new provider, achieving better delivery rates and lowering operating costs.
- Revamped multiple pages of the Salesforce Ecommerce Store to optimize user experience and drive higher conversion potential.

PROJECTS

SmartFile | *Python, Javascript, LangChain, Svelte, Docker, Google Cloud*

May 2024 – Present

- Designed and developed SmartFile, a web application leveraging LangChain and Google Cloud to streamline complex file operations with chain-of-thought reasoning for CLI command execution.
- Implemented multi-format file support, enabling seamless conversion, editing, and extraction of images, videos, PDFs, and more through a user-friendly interface, enhancing workflow efficiency.

PeaceBox | *JavaScript, React Native, Svelte, Firebase*

Oct 2021 – Sep 2023

- Designed and Developed PeaceBox, a non-profit mindfulness app for fostering mental well-being across mobile platforms.
- Launched the app on the iOS App Store in 2021 and the Google Play Store in 2023 garnering over 30,000 impressions since launch.

TECHNICAL SKILLS

Languages: JavaScript, HTML/CSS, Python, Java, Go, SQL, Groovy, C, Terraform

Frameworks: React, React Native, Node.js, Flask, JUnit, Express/FastAPI

Tools: Git, Docker, ArgoCD, Jenkins, Google Cloud Platform, Azure, Gradle, Maven, Jira, CI/CD, Bash, Helm

Libraries: Pandas, NumPy, Matplotlib, scikit-learn, FFmpeg, Puppeteer, Selenium