Neil Agrawal

Software Development Engineer

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Education

Northeastern University - Boston, MA   Sep 2022 – Present

Khoury College of Computer Sciences – **BSCS**

GPA: 4.0/4.0

Relevant Courses: Object-Oriented Design, Algorithms and Data, Fundamentals of Computer Science 1 & 2, Fundamentals of Data Science, Discrete Mathematics

Computer Knowledge

Languages Proficient in JavaScript, TypeScript, HTML, CSS, Python, Java; Familiar with Kotlin, SQL

Frameworks ReactJS, NodeJS, React Native, Svelte, Express.js, Vue.js

Cloud & DevOps GCP, AWS, Docker, CI/CD pipelines

Misc. Git, Jira, Database Management, Algorithms, REST API Design/Development, Agile Workflows

Work Experience

TJC, London, United Kingdom – Web Development Intern   Jun 2023 – Aug 2023

- Identified design issues with the Rising Auctions page, spearheaded a full-scale redesign and reimplementation.
- Pinpointed and resolved issues in backend as well as UX/UI, improving reliability.
- Cultivated skills in source control, remote team collaboration and Agile methodologies through Scrum sprints.

ShopLC, Dusseldorf, Germany – Web Development Intern   Jun 2022 – Aug 2022

- Spearheaded the transition of email systems to a new provider, achieving better delivery rates and customer engagement.
- Reconstructed multiple pages on the company website to enhance user experience and conversion rates.
- Cultivated technical and teamwork skills in collaboration with remote development teams.

Projects

PeaceBox – React Native, SvelteKit – GitHub   Oct 2021

- Designed and Developed PeaceBox, a 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
- Boosted app visibility and conversions by designing and implementing the peacebox landing page

Gamifier – GPT-4, FFmpeg, Coqui-TTS, Docker – GitHub   Apr 2023

- Explored the potential of LLMs by creating Gamifier, a GPT-4 powered automated vertical video generator, integrated with a locally run text-to-speech model.
- Demonstrated the potential of artificial intelligence in a visually engaging format.

3D Doodle Jump – THREE.js, WebRTC, Google Cloud, SvelteKit – GitHub   Apr 2023

- Recreated Doodle Jump in 3D to explore WebRTC and mobile gyroscope technology.
- Refined expertise with Cloud Computing, NoSQL Database Management, Web based real-time communication, and web-based 3D rendering.