Aviral Rana

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Education

Graphic Era University

Dehradun, India

B. Tech. in Computer Science and Engineering | CGPA: 9.40/10

June 2019 - June 2023

Coursework

Data Structures, Algorithms, OOPS, Operating Systems, Database Management Systems, Computer Networks.

Work Experience

Adobe Noida, India

Technical Support Engineer

August 2023

- Reduced 80% of manual effort of business owners and managers by **automating a task** of fetching business data and generating case-review presentations automatically along with elaborated charts.
- Developed the application in **Python** and deployed it on company's server to be used internally by managers.
- Significantly **reduced query resolution time** for GSD team as measured by increased first-call-resolution(FCR) rate of service desk queries by developing a chatbot that helps in narrowing down the search space of FCR queries.

Amazon Bangalore, India

Software Development Engineer Intern

January 2023 - June 2023

- Collaborated with the International Expansion (IX) team to successfully launch a novel Home Tab experience of **Amazon Music** for **Android Automotive** clients by migrating the old home experience to a newer architecture.
- Developed front-end network calls module in Kotlin and contributed to back-end data processing API in Java.
- Orchestrated the deployment of a robust CI/CD pipeline, currently utilized by the IX team for experimentation, testing and feature development purposes.
- Implemented new Home Tab support for Navigation Apps, facilitating seamless integration with Amazon Music.
- Spearheaded the development of a personalised widget, which was successfully launched to production.

Technical Skills

Languages: C++/C, Java, Kotlin, Python, JavaScript, TypeScript, SQL, HTML/CSS.

Technologies/Frameworks: ReactJS, Amazon CloudWatch, Amazon Lambda, Android, Junit, Mockito, Flask, ExpressJS, ThreeJS, MySQL, MongoDB, NodeJS.

Projects

Personal Portfolio Website | ReactJS, TypeScript, JavaScript, TailwindCSS | QGithub | Live |

- Innovated a Discord styled personal portfolio website using ReactJS and TailwindCSS.
- Decoupled data dependency for UI elements by creating a Config driven UI enabling easy updates to the website.
- Developed an engaging user experience using modern design principles within a responsive single-page application (SPA).

Visualizing Path Finding Algorithms | JavaScript, HTML, CSS | Github | Live |

- Developed simulation of **Shortest-path finding** algorithms using **JavaScript**.
- Implemented two graph algorithms: Dijkstra's and A-star. Implemented Randomized DFS for maze generation.
- Expanded the project scope by developing a reverse snake game that made use of path-finding algorithms for snake.

MNIST Handwritten Digit Recognition | NodeJS, JavaScript, TailwindCSS, HTML | Github | Live |

- Developed a web UI for identification and prediction of hand-drawn digits. Streamlined the process by removing back-end dependency of the model and shifting the computation to front-end, improving overall performance.
- Trained a CNN model that had an accuracy of 99.74% and used it to identify digits drawn in the UI.
- Created a 3D visualization of the CNN model that is used under the hood for digit recognition using Three.js.

Achievements

Leetcode | Knight : Max Rating 2019 | https://leetcode.com/aviral19rana/

• Secured Global rank 630 out of 16000+ participants in Leetcode Biweekly contest 86.

CodeChef | 5 Stars : Max Rating 2105 | https://www.codechef.com/users/aviral19

• Secured Global rank 44 in CodeChef Starters 7 and Global rank 60 in CodeChef Starters 31.

Codeforces | Expert: Max Rating 1618 | https://codeforces.com/profile/aviral10

• Secured Global rank 429 out of 15000+ participants in Educational Codeforces Round 129.