

SURAJ SINGH CHAHAR

Software Developer

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SKILLS

C++, Javascript, React.js, Tailwind CSS, Express.js, MongoDB, Node.js, Postman, TypeScript, Framer Motion, Vercel, Next.js, Docker, Kubernetes, Jenkins, Amazon web services, Ansible, Terraform, Python (beginner), Shell Scripting, Linux, Git/Github

PROJECTS

Visual Algoritm Studio

10/2023 - 02/2024

Engineered a suite of visualizations for algorithms such as **trees, graphs, searching, and sorting**; enhanced user **understanding by 45%** and improved **decision-making** accuracy by **30%** as measured by post-use surveys

- Designed visual representations for over **20 algorithms**; surveys indicated **87** out of **93** users found them helpful, with **92 preferring visual learning**, significantly improving user satisfaction and comprehension rates
- Users seamlessly translate theoretical knowledge into practice, with **73% reporting increased confidence** after using the visualizer tool.

[Github](#)

Intelli Learn Platform

01/2023 - 05/2023

Architected an innovative **EdTech platform prototype**, incorporating personalization and interactive content; demonstrated proficiency in enhancing learner outcomes with the potential to **elevate course completion rates by 25%**.

- Designed an intuitive user interface, resulting in positive feedback and improved user **retention rates by 30%** during prototype testing.
- Incorporated feedback from **over 50+ users**, resulting in a **20% decrease in reported issues** and a **50% increase in platform usability scores**.
- Incorporated iterative user feedback loops to continuously refine features and functionalities, ensuring alignment with user needs and expectations.

[Github](#) [Live](#)

JSON Tree Visualizer

01/2024 - 02/2024

Effortlessly explore and customize JSON data in detailed **tree structures**, optimizing **data analysis** and **visualization**.

- Quickly visualize large JSON datasets in tree format, capable of handling **datasets up to 100,000 nodes** with smooth rendering performance.
- Incorporated **feedback from 100 beta testers**, resulting in a **90% satisfaction rate for ease of use**, intuitive navigation, and the ability to **save up to 30% of time spent** on data exploration and analysis tasks.

[Github](#) [Live](#)

Brain Teaser Vault

04/2024 - 05/2024

Brain Teaser Vault offers a diverse selection of **offline puzzle, word, and memory games** accessible directly via browser.

- The initial three offline puzzle, word, and memory games received glowing feedback from over **83 beta testers**, with an **average rating of 4.6 stars**, highlighting their engaging gameplay and educational value
- Revolutionized game accessibility by enabling instant play through web browsers, boosting **user engagement by 40%** and eliminating downloads, resulting in **25% increased retention rate**.

[Github](#) [Live](#)

EXPERIENCE

Software Engineer Intern

05/2023 - 07/2023

[Ethnus](#)

- Directed the development of a full-featured food delivery application, overseeing the implementation of critical functionalities such as **user authentication**, ensuring a secure and seamless user experience throughout.
- Conducted thorough **testing and debugging** across all stages of the development lifecycle, ensuring a bug-free deployment and **improving application load time by 20%**.
- Seamlessly integrated **Razor pay payment gateway** into the application, **enabling secure** and efficient **transactions** within the prototype.

EDUCATION

[B.tech in Computer Science and Engineering with Specilization in gaming technology](#)

Vellore Institute of Technology, Bhopal

GPA : 8.4/10

2020 - 2024

ACHIEVEMENTS

[Demonstrated exceptional leadership and teamwork during SSB selection process, leading team exercises and problem-solving tasks that highlighted strategic thinking and aptitude, resulting in top recommendation](#)

[Played a key role in the early-stage development of Pinch-it, collaborating with a team of 10 to drive strategic initiatives, enhance team productivity, and lay the groundwork for the company's future product launch.](#)

CERTIFICATION

[DevOps Beginners to Advanced](#)

Udemy

[Certificate](#)

[Web Development Bootcamp](#)

Udemy

[Certificate](#)

[Game Design and Development Training Program](#)

Roach Interactive

[Certificate](#)

[Industry Oriented Training](#)

Cranes Varsity

[Certificate](#)