

Suraj Singh Chahar

Software Development Engineer

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SUMMARY

Software Engineer with experience in developing, optimizing, and maintaining software solutions. Quick to learn new technologies and adapt to changing project requirements. Strong problem-solving abilities with a focus on delivering reliable, scalable solutions. Work well both in teams and independently, with a focus on continuous improvement.

PROJECTS

Visual Algorithm Studio

Developed an innovative suite of visualizations for algorithms including **trees**, **graphs**, **searching**, and **sorting**; findings revealed a **45% boost in user understanding** and a **30% increase in decision-making accuracy** based on **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

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%**.

- Developed an engaging **graphical user interface that garnered rave reviews from early testers**; this innovation contributed to heightened engagement levels.
- 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 systematically refine features and functionalities, ensuring continuous alignment with user needs. [Github](#) [Live](#)

JSON Tree Visualizer

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](#)

EXPERIENCE

Software Engineer Intern

Ethnus

📅 05/2023 - 07/2023

- 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%**.
- Successfully migrated legacy code from common repositories to an **npm module**, **resulting in a 15% reduction** in developer effort.
- Integrated the **Razorpay payment gateway** into a **prototype application**, facilitating secure transactions and achieving a **user satisfaction rating of 95%** during usability **testing phases** without any transaction failures.

Software Engineer

Freelancer

📅 09/2024 - Present

- Automated **CI/CD pipeline for a React (Vite + TypeScript)** app using **GitHub Actions**, enabling seamless deployment to a **Hostinger VPS via FTP/SFTP** with error logging and fully automated updates on code push.
- Developed and optimized scalable **React.js applications** with responsive design, **reusable components**, and **high performance**.
- Collaborated on a responsive **2-5 page web app using Next.js**, enhancing UI and backend integration, which **improved page load times by 40%**.

TECHNICAL SKILLS

C++	JavaScript	React.js/Redux	
Tailwindcss	JIRA	Express.js	MongoDB
Docker	Kubernetes	Amazon web services	
Tauri	Bash/Shell Scripting	Linux	
Git/Github	Redis	Kafka	Ansible
Jenkins	Typescript	Next.js	Node.js
Postman	MySQL	Terraform	
Python (beginner)			

KEY ACHIEVEMENTS

Service Selection Board

Demonstrated **leadership** and **teamwork** during **SSB selection process**, leading **team exercises** and tasks that showcased **strategic thinking** and **aptitude**, resulting in **top recommendation**.

Pivotal Role in Pinch-it's Early Development

Played a **pivotal role** in the **foundational** stages of Pinch-it, collaborating closely with a **team of 10** to spearhead **strategic initiatives**, **optimize team productivity**, and establish the framework for the company's upcoming product launch.

Finalist, Hack2Skill Hackathon

Chosen as a **finalist** in the **Hack2Skill Hackathon** for **designing** and implementing a solution that addressed key challenges, demonstrating strong skills in **software development** and the ability to deliver results **under time constraints**.

CERTIFICATIONS

DevOps Beginners to Advanced	Udemy	Certification
Web Development Bootcamp	Udemy	Certification
Game Design and Development Training Program	Roach Interactive	Certification
Industry Oriented Training	Cranes Varsity	Certification

EDUCATION

B.Tech in Computer Science and Engineering with a Specialization in Gaming Technology	GPA
Vellore Institute of Technology, Bhopal	8.41 / 10
📅 11/2020 - 11/2024	