Suraj Singh Chahar

Software Development Engineer

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SUMMARY

Software Engineer with 1 year of experience in developing and supporting software solutions for fast-growing startups. A fast learner with strong attention to detail, I adapt quickly to changing project requirements to achieve business objectives.

PROJECTS

Visual Algorithm Studio

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

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 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*

Brain Teaser Vault

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

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.
- Seamlessly integrated **Razor pay payment gateway** into the application, **enabling secure** and efficient **transactions** within the prototype.

TECHNICAL SKILLS

C++   Javascript   React.js/Redux

Tailwindcss   JIRA   Express.js   MongoDB

Docker   Kubernetes   Amazon web services

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 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**.

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

Selected as a **finalist** in the **Hack2Skill Hackathon** for developing an innovative solution, showcasing advanced problem-solving skills and technical expertise.

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
Vellore Institute of Technology, Bhopal
📅 2020 - 2024

GPA
8.41 / 10