

SUYASH SINGH

Software Developer

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EXPERIENCE

Software Engineering Intern (Virtual)

Forage - J.P. Morgan Chase & Co.

June 2024 – August 2024

Remote

- Developed and integrated a live data feed visualization tool using J.P. Morgan Chase's Perspective library, enabling traders to monitor data effectively.
- Contributed to J.P. Morgan's open-source project by enhancing the inference-server for Amazon SageMaker, optimizing logging configurations, and increasing deployment flexibility with Docker and Python.

PROJECTS

AI-Driven Dynamic Pricing Model

Python, TensorFlow, Apache Spark, REST APIs, Tableau, Plotly, MySQL, MongoDB

2024

- Increased revenue by 15% using a machine learning model with reinforcement learning for real-time price optimization.
- Integrated real-time data (latency less than 2s) from over 1 million sales records, weather APIs, and competitor prices.
- Designed a Tableau and Plotly dashboard for 50+ stakeholders, improving decision-making efficiency by 10%.
- Conducted 500,000 simulations with Deep Q-Learning, reducing pricing errors by 20% and enhancing sales margins.

Blood Report Analysis using CrewAI

Python, CrewAI, Web Scraping, PDF Processing

2024

- Analyzed 75 blood test reports using CrewAI, reducing analysis time by 30% and improving diagnostic accuracy.
- Retrieved over 20 relevant articles and recommendations for patients through web scraping with BeautifulSoup, enhancing their understanding of results.
- Utilized PDF processing libraries to extract data from reports, facilitating accurate and efficient information retrieval.
- Organized the project with 4 agents focused on specific tasks, streamlining overall workflow and collaboration.

Online Ecommerce Store

Data Structures and Algorithms

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- Designed and implemented an online store for selling cameras using Linked Lists for order management and AVL trees for inventory, improving processing speed by 30% and inventory lookups by 20%.
- Optimized delivery routes using Dijkstra's and Prim's algorithms, reducing delivery times by 15% and cutting costs by 10%, resulting in a 25% boost in customer satisfaction.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Vellore Institute of Technology, Vellore, Tamil Nadu

2021 – 2025

CGPA: 8.1

Class XII, CBSE

Shri Gujarati Samaj AMNEM School, Indore, Madhya Pradesh

2019 – 2021

Percentage: 84.6

Class X, CBSE

Choithram School North Campus, Indore, Madhya Pradesh

2017 – 2019

Percentage: 93.4

SKILLS

- Languages:** Python, Java, C/C++, HTML/CSS, JavaScript, SQL
- Developer Tools:** VS Code, Eclipse, Google Cloud Platform, Microsoft Power Platform, Android Studio
- Soft Skills:** Collaborative, Bias for action, Deliver results
- Database:** MySQL, MongoDB
- Coursework:** Data Structures, Software Development, Algorithms Analysis, Database Management, Artificial Intelligence, Internet of Things, Web Development, Computer Architecture

CERTIFICATIONS

- Google Cloud Computing Foundations Program: Etrain India
- Microsoft Certified: Power Platform App Maker Associate course, Etrain India
- Oracle Certified Professional: Java SE 11 Developer
- J.P. Morgan: Software Engineering Job Simulation

EXTRACURRICULAR

- Participated and performed well in the Smart India Hackathon (SIH) 2023. (Certificate)
- Completed over 300 coding challenges on LeetCode, showcasing proficiency in algorithms and data structures. (LeetCode Profile)