GAURAV SINGH

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EDUCATION

San Jose State University — San Jose, CA
Master of Science - Software Engineering (Courses - Enterprise Software, Data Mining) — *May 2026*

Pune University — Pune, MH
Bachelors of Engineering [GPA 8.9/10] (Courses - AIML, Numerical Methods) — *May 2023*

TECHNICAL SKILLS

Languages: Python, R, Java, C/C++, JavaScript, Go(Golang), SQL, NoSQL
Frameworks: React, Next, Node.js, Flask, Express, FastAPI, WordPress, Material-UI, REST
Developer Tools: Git, Docker, Firebase, Google Cloud Platform, MongoDB, Kafka, RabbitMQ, Tableau, PowerBI
Libraries: Pytorch, Tensorflow, MatPlotlib, Pandas, NumPy, OpenCV, Scikit-Learn, Keras
Certifications: Google Advanced Data Analytics, Stanford Machine Learning, Harvard Data Science

EXPERIENCE

Software Development Engineer — Aug 2023 - May 2024
Pratyin Infotech — *Pune, MH*

- Developed a real-time collaboration API using Express and NodeJS, AWS, Kafka, and CI/CD pipeline, enabling faster iteration cycles and 10,000+ concurrent users with sub-100ms latency.
- Built and implemented over 5 features using React, leveraging complex state management techniques with Redux. As a result, application responsiveness improved by 40%, and user engagement increased by 30%.
- Collaborated on end-to-end integration tests using Jest and Enzyme, executing continuous deployment workflows on AWS Code-Pipeline, This resulted in a 50% reduction in testing time and increased deployment frequency by 30%, significantly boosting the speed of releasing new features and updates.
- Earned recognition from senior management for the robust collaboration API and efficient testing framework, recommended for deployment in production.

Software Development Engineering Intern — Feb 2023 - Jun 2023
LTIMindtree — *Pune, MH*

- Engineered multiple software development projects using cutting-edge technologies, delivering 5+ robust applications and gaining critical insights into agile methodologies and best practices in software engineering.
- Worked extensively with SQL databases, optimizing queries to boost data access efficiency by 40% and maintaining data integrity across multiple projects, resulting in streamlined data processing and improved system performance.
- Implemented and successfully deployed more than 5 full-stack web applications using the MERN stack, enhancing delivery times by 30% while gaining expertise in fullstack development, CI/CD practices.

Software Engineering Intern — Dec 2021 - Feb 2022
Pratyin Infotech — *Pune, MH*

- Developed a comprehensive employee management platform using Node.js and MongoDB, reducing administrative burdens by 40% through automation and streamlining processes handling 100+ leave requests monthly.
- Implemented Passport.js for secure authentication and authorization, reducing unauthorized access incidents by 50% and ensuring data integrity with a 99.9% success rate, resulting in a 30% increase in HR efficiency.
- Created a robust and scalable solution for modern businesses, enhancing efficiency and compliance with industry.

PROJECTS

Chat PDF RAG | *Python, PyTorch, FAISS, Langchain, ChromaDB, Gemini, Streamlit* — April 2024

- Implemented Retrieval-Augmented Generation (RAG) Model: Designed and developed an AI-driven application utilizing a Retrieval-Augmented Generation model to enhance the accuracy and relevance of chat responses based on information extracted from PDF documents.
- Optimized NLP with Chroma DB: Implemented advanced NLP techniques and Chroma DB for vector embeddings to efficiently extract and index PDF data.

S&P 500 Price Prediction | *Python, StreamLit, Yahoo Finance, Pytorch, Numpy, Pandas* — June 2023

- Gathered historical S&P 500 data using APIs and web scraping techniques, ensuring data accuracy and completeness.
- onducted extensive data cleaning, including handling missing values, outlier detection, and feature scaling to prepare the data for modeling.
- Created an interactive web application using Streamlit to allow users to input custom parameters and obtain S&P 500 price predictions in real-time.