

SAURABH SAMPATKUMAR LOYA

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SUMMARY

Motivated and solution-oriented Computer Science graduate with 2+ years of professional experience through internships and full-time roles. Strong foundation in backend development, cloud computing, and distributed systems, with hands-on expertise in building scalable applications and automating workflows. Eager to contribute to innovative engineering teams by delivering robust, maintainable, and high-impact software solutions.

SKILLS AND CERTIFICATIONS

Languages: Python, Java, C++, HTML, CSS, JavaScript, TypeScript, SQL

Database: MySQL, PostgreSQL, MongoDB

Frontend & Backend: Angular, React, Spring, Flask, Django, Apache Kafka, Apache Airflow, Apache Spark, Selenium

ML/Data: NumPy, Pandas, PyTorch, TensorFlow, Scikit-Learn, Spacy, LangChain

Testing: JUnit, Mockito, Pytest

Visualization Tools & Development: Tableau, Power BI, Git, Jira, Docker, Microsoft Office, Microsoft Excel

Certification: AWS Certified Cloud Practitioner, Azure Fundamentals

EDUCATION

The University of Utah

Master of Science in Computer Science | Graduate Teaching Assistant | GPA: 3.6/4

Coursework: Graduate Algorithms, Distributed Systems, Software and System Security, ML, NLP, Visualization

Salt Lake City, Utah

Aug 2023 – May 2025

MIT World Peace University

Bachelor of Technology in Computer Science and Engineering | Merit List Scholarship | GPA: 3.8/4

Coursework: Data Structures, Database Management System, Software Engineering and Project Management

Pune, India

Aug 2017 – May 2021

WORK EXPERIENCE

Volkswagen Group Technology Solution

Software Engineer

Pune, India

Aug 2021 - July 2023

- Engineered a global SaaS survey platform adopted by 10+ Volkswagen entities for multi-region survey management and analytics.
- Developed a Query Management System with RESTful APIs to automate HR inquiry routing and reduce resolution time.
- Optimized an OCR pipeline using Azure Cognitive Services, achieving 8x faster document processing and 15% accuracy gain.
- Integrated LLM and NLP into an internal chatbot, enhancing human-like responses and expanding its knowledge base by 30%.
- Designed and tested backend services using JUnit and Mockito, validating business logic and API-database interactions.
- Collaborated in Agile ceremonies, contributed to peer code reviews and CI/CD pipelines to deliver reliable, maintainable software.
- Resolved 50+ production issues and refactored complex modules, strengthening codebase quality and system stability.

INTERNSHIP EXPERIENCE

BMW Financial Services NA

Data Scientist Intern

Salt Lake City, Utah

Jan 2025 - May 2025

- Prepared and validated high-quality datasets for a loan optimization model impacting \$100M–\$300M in daily originations.
- Executed intricate feature engineering on a high-dimensional unstructured dataset to identify key predictors for loan selection.
- Built interactive dashboards to track loan performance, enabling data-driven decisions for a \$9B+ financial portfolio.

PROJECTS

- Distributed Key-Value Store Using Raft Consensus Algorithm:** Implemented a fault-tolerant, replicated key-value store in Golang using Raft, ensuring strong consistency, linearizability, and 4s leader failover with log replication and persistence.
- CITI Bike Rental Data Analytics and Forecasting:** Conducted EDA on 5M+ ride records and trained a predictive model using Apache Spark and Facebook Prophet, optimizing CITI Bike demand forecasts and inventory.
- Scheduling Platform for VCs:** Designed a scheduling system to streamline investor–entrepreneur interactions by automating meeting coordination, reducing manual follow-ups, and improving workflow efficiency.
- LLM based Recommendation System:** Crafted a medicine recommendation system using Llama 2, LangChain, and Chroma DB with Retrieval-Augmented Generation (RAG), achieving 90% accuracy in providing medication.

HONORS AND RECOGNITION

- Innovation Award** in recognition of creative thinking in automating training pipeline of chatbot using LLM.
- Achievers Award** for successful project deliverable with Customer Satisfaction Survey rated above 9.