SAURABH CHAUHAN
M.S (Computer Science)

Springfield, Illinois
e: schau57@uis.edu
p: 217-862-4640
w: https://www.linkedin.com/in/saurabh-chauhan2298/

SUMMARY

Software engineer with three years' experience implementing varied systems in Python and Java; underlined endorsed as 'One of the outstanding employee and developer ', given to the top 5 percent of engineers based on total impact to firm. Been a proud team player and motivated developer focused on achieving project objectives with speed and accuracy. Seeking summer internship 2025 opportunities to expand technical skills in a dynamic, collaborative environment.

TECHNICAL STACK

Programming Languages: C++, Python, Java, R

AI & Machine Learning Frameworks/Libraries: Generative AI, LLMs, LangChain, RAG, TensorFlow, PyTorch, Scikit-learn

NLP, Data Science & Analysis: NLTK, SpaCy, OpenAI, Tensor flow, Scikit-learn, Pandas, NumPy, Apache Spark, Airflow

Web Frameworks & Tools: Django, Flask, jQuery, FastApi, Springboot, Docker, Jenkins CI/CD, API SIX (API Gateway), Apache Superset

Databases: SQL Server, Oracle, PostgreSQL, MySQL, SQL Alchemy, Redis

Software Development: Git, SVN (Subversion), Automation Testing (RPA), Shell/Bash Scripting, REST Api, Grpc (Proto3).

EXPERIENCE

Software Engineer   Jun 2023 - Jul 2024
Product Dossier Solutions Pvt Ltd | On-site (Pune, India)

- Developed and maintained **Java-based web application features using Spring Boot** and **Grpc RPC Calls** for AI-ML use cases.
- Individually developed AI backend package and architecture which reduced code reusability to 85%.
- Created and deployed machine learning models utilizing Spacy, improving text classification accuracy by 30% and enabling real-time detection and extraction of form fields.
- Built & implemented scalable distributed computing systems using **AWS EC2 and GCP** for high-performance automation system.
- Composed automation software solutions using **Core Java and Docker**, reducing deployment times by 60%.
- Collaborated with software engineers and data scientists and drove initiatives to monitor and evaluate the performance of machine learning integrations, implementing real-time analytics that provided actionable insights and increased model accuracy by 20%.
- Built an automation software-based solution in Core Java utilizing Docker, Apache Freemarker which reduced deployment time of software by 60%.
- Integrated Apache **API SIX gateway (Front-end proxy and Load balancer)** into a spring boot application to manage GRPC APIs of AI services for client increasing customization of API and security up to 80%.
- Deployed microservices ELT to AWS EC2, optimizing performance and scalability.
- Spearheaded the development and implementation of a Retrieval Augmented Generation system utilizing Lang Chain (v2.0) with OpenAI and Mistral 7B model, enhancing document text extraction efficiency by 40% through prompt engineering.

Software Engineer   May 2021 - Apr 2023
Dasha Krit Technology Pvt Ltd (D10X) | On-site (Pune, India)

- Programmed **a Django SAAS multi-tenant** workflow application from scratch to version 1.1, contributing 70% to the project. Led the project and coordinated individually with team members, creating, and assigning tasks to ensure timely delivery of the product.
- Created shell scripts to automate software deployments and to run automation testing suite on client Linux servers.
- Engineered an automated solution with Python for precise extraction of live data from a **WebSocket API**; integrated daily updates into the database via SQL Alchemy, drastically improving data availability and accuracy.
- Integrated Apache Superset into a stock market application, enhancing user experience by enabling real-time data exploration and visualization; facilitated informed investment decisions for over 500 active users.
- Streamlined **automated testing frameworks** with **Python Playwright (Robot Framework)** that decreased manual QA efforts by over 35% while ensuring code quality remained high, leading to faster rollouts of new features.
- Developed a fin-tech product base architecture of the project and the database structure, integrating third-party APIs and WebSocket.

EDUCATION

Master of Science in Computer Science   July 2026
University of Illinois | Springfield, Illinois
Courses: Machine Learning, Neural Network, Web Design

Bachelors of Engineering in Computer Science   May 2021
Pune University | Pune, Maharashtra, India

Extracurricular Activities

- Lead Team into Hackathon – Engaged into a 12-hr. hackathon building a project with Django and REST Framework.
- **Engaged into Google Summer of Code 2022 program as a Team member.**
- **Coordinator and Teacher**, Universal Science Academy – Coaching Center, Pune.   Aug 2015 - Nov 2017

Volunteering Experience

Public Relations Officer   2019-2020
Rotaract Club of DYPVP

- Awarded for the best PR in 5 successfully events with Rotary District 3131.
- Managed and optimized social media platforms (Instagram, Twitter, Facebook), successfully growing the follower base to over 1,000.
- Served as the primary point of contact for media inquiries and public relations matters, ensuring clear and timely communication with the public and Rotary members.
- Executed a series of well-organized social and online activities like cooking competition, food distribution and blood donation drives.