





SAURABH SINGH


SOFTWARE ENGINEER


Experienced Senior Software Engineer with a proven track record of 3 years in designing and developing complex software. Proficient in Java, Python, Go, and Databases with expertise in building scalable, efficient, and reliable systems. Strong problem-solving abilities, a commitment to code quality, and a collaborative approach to delivering innovative software products.


Contact

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Education

Aerospace Engineering
B. Tech ('20) – IIT Bombay

Science
Intermediate ('15) – RAQIC

Key Skills

System Design



Python / JAVA / Go / Kafka



HTML / CSS / jQuery



Postgres / Redis / MongoDB /
TimescaleDB / DynamoDB



Git / GitHub / Bitbucket



Elastic Search / Selenium



GCP / Docker / AWS



Awards/Recognitions

Bravo Award (Dec'22)
– Biofourmis

Performer of the Year (Feb'22)
– Salesken

Professional Experience

Senior Software Engineer | Biofourmis

Jun'22 – Present

- Migrated from monolithic services to **microservices** and transitioned from **Python** to **Go**, resulting in **30 times faster** API responses and better load-handling capabilities.
- Implemented **Redis**-based caching to optimize the performance of systems that rely on frequently accessed data, allowing quick retrieval and significantly reducing latency.
- Optimized the database design, hyper-table config, and indexes in a **PostgreSQL Timescale** database profoundly impact query performance and database size.
- Took ownership of integrating a third-party **Machine Learning** (ML) sleep-scratch algorithm developed by **Pfizer** with the Biofourmis system.

Software Developer | Salesken

Aug'20 – Jun'22

- Automated the signal creation by extracting keywords from scraped web page data using **NLP** technologies like **Rake**, **YAKE**, **Key-BERT**, and **TF-IDF**.
- Integrated **RingCentral CRM** with OAuth 2.0 authorization using **Java** and **Jersey** to synchronize calls and SMS data from RingCentral to the Salesken system.
- Integrated multiple third-party services into a system, including RingCentral, **ZoomInfo**, **Plivo**, **Twilio**, for lead synchronization, Calls and SMS communication, and call syncing.
- Implemented **Redis** for database caching and **Elastic Search** as a NoSQL database for enhancing user experience and improving web page load times.
- Developed **RESTful** APIs using **Java**, **Python**, **Elastic Search**, and **PostgreSQL** and integrated them with the frontend using **HTML**, **CSS**, and **jQuery** technologies.

Courses

Scalability & System Design for Developers | Educative

Sep'23 – Present

- Acquired a deep understanding of scalable and efficient **system design** principles, microservice architecture, **load balancing**, data storage.
- Gained hands-on experience in system design through practical exercises.

Data Structure and Algorithm | Geeks for Geeks

Feb'22 – Jun'22

- Successfully executed hands-on projects and assignments, including **arrays**, **strings**, **linked lists**, **trees**, and more, and evaluated the efficiency of different algorithms through **Big O notation**.

Data Science Specialization | Coursera (IBM)

Mar'20 – Jul'20

- Acquired hands-on experience in Python, SQL database, machine learning algorithms, **data preprocessing**, and exploratory **data analysis**.

Analysis of the IMDB Dataset | IIT Bombay

Jan'17 – Apr'17

- Analyzed the IMDB dataset of movies using **Matplotlib**, **Seaborn** to visualize the releases, budgets, collections, popularities, and profit patterns.

Miscellaneous

- Complete learning of Guitar under National Sports Organization, IIT Bombay.
Jul'16 – Apr'17