

SURAJ SHARMA

SENIOR SOFTWARE ENGINEER

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Profile

Experienced Software Engineer with 5 years of expertise in backend development, designing cloud-native solutions, and leading teams. Proficient in architecting scalable microservices, ETL pipelines and optimizing data-driven applications. Recognized for driving performance improvements and delivering impactful retail optimization tools.

Experience

Turing | Remote | Senior Software Engineer | 10/2024 – Present

Microsoft LLM - Python + JavaScript

- **Training LLM Models:** Applying backend, frontend, database, cloud and event-driven technologies to develop applications and scripts to validate and train LLM models using RLHF.
- **Technical Writing:** Reviewing code, providing guides and documenting model responses for various use cases like Data Science, Databases, Web applications, Problem-solving and technology discussion.
- **Performance Optimization:** Analyzing the performance of the technical/code responses provided by the LLM models and training the model using RLHF with an ideal response with better efficiency.
- **Collaborated** with cross-functional global teams and reviewed evaluations from other trainers.

Impact Analytics | Bengaluru, India (~ 4 years)

Lead Software Engineer | 12/2021 – 10/2023

Senior Software Engineer | 11/2019 – 11/2021

PriceSmart Project- Retail Price Optimization Software

Overview: Designed and led the development of PriceSmart, a retail price optimization tool leveraging advanced analytics for dynamic pricing strategies.

Technologies Used: Python, Fast API, PostgreSQL, GCP Pub/Sub, Cloud Functions, Cloud Run, Logging.

Tools Used: Confluence, Bitbucket, JIRA, OWASP ZAP, Postman, Ansible.

Key Achievements and Responsibilities:

- **Design & Development:** Led backend development, designed scalable database schemas, APIs, and system architecture. Managed comprehensive documentation.
- **Event-Driven & Cloud Solutions:** Used GCP Pub/Sub and Cloud Functions for asynchronous processing and logging of price changes. Leveraged Cloud Run for scalable, weekly bulk price generation.
- **Code Quality & Security:** Conducted code reviews, established standards, used OWASP ZAP for vulnerability detection, and created a review checklist for feedback.
- **Mentorship & Communication:** Guided junior developers and organized knowledge-sharing sessions to foster team growth. Ensured clear communication during requirement meetings to align team efforts with project goals.
- **Impact:** Enhanced pricing accuracy and client revenue, optimizing retail pricing strategies.

MarkSmart Project

Overview: Developed a markdown optimization application utilizing price elasticity modelling to generate real-time markdown recommendations, improving data-driven decision-making.

Technologies Used: Django, DRF, Fast API, PostgreSQL, Socket.io, Server-Sent Events, Prometheus, GCP Logging, Microsoft Active Directory (SSO), NGINX, React, Python, Google Analytics.

Tools Used: Confluence, Bitbucket, JIRA, OWASP ZAP, Grafana, Postman, Jenkins.

Key Achievements and Responsibilities:

- **API Development:** Designed and implemented scalable APIs for real-time data processing and recommendations.

- **Query Optimization:** Handled complex queries, improved performance with indexing, partitioning, denormalization, and materialized views.
- **Cron Jobs & Migration:** Implemented daily and weekly cron jobs for data updates and migration scripts for transitioning data from BigQuery to PostgreSQL.
- **Notification Systems:** Implemented real-time notifications using Sockets and Server-Sent Events (SSE).
- **Leadership:** Led feature development, mentored junior engineers, and facilitated cross-team communication.
- **Impact:** Improved data consistency and system reliability, leading to enhanced overall performance and stability of the markdown optimization process.

Other Projects:

Image Attribute for automating the extraction of image attributes for product cataloging.

Recognition:

Awarded Employee of the Quarter in Q1 2022.

Tailorman | Bengaluru, India (~ 4 months)

Full Stack Engineer | 03/2019 – 07/2019

- **Full Stack Development:** Implemented full-stack solutions using React.js and Redux for the frontend, and Express.js for the backend, with PostgreSQL for database management.
- **Cloud Integration:** Utilized AWS S3 for scalable storage, AWS Lambda for serverless computing, and AWS EC2 instances for scalable server deployment.
- **Performance Optimization:** Enhanced application performance by improving SEO and page loading speed.
- **Collaborated** with cross-functional teams for development purposes.

Kubric | Bengaluru, India (~ 8 months)

Member of Technical Staff | 05/2018 – 12/2018

- **Code Editor:** Built a feature-rich editor with Ace, integrating it with HTML Canvas and React.
- **UI & APIs:** Created reusable UI components and APIs, ensuring a smooth user experience.
- **Maintenance:** Addressed bugs and optimized performance.

Education

Bangalore Institute of Technology – Bengaluru, India

B.E in Computer Science and Engineering | 08/2013 – 07/2017

Sri Chaitanya Junior College – Visakhapatnam, India

Higher Secondary Education (H.S) in Science (CBSE) | 06/2010 – 03/2012 / 82%

St. Xavier's National School, Krishnai - Krishnai, Goalpara, India

Secondary School Certificate (SSC) CBSE | 04/2010 / CGPA 9.0

Skills & abilities

- **Programming Languages** - Python, JavaScript, Java, C++
- **Backend Frameworks** - Fast API, Django, Express Js, Flask
- **Frontend Frameworks** - React Js, SCSS, HTML, CSS
- **Database** - PostgreSQL, MySQL, MongoDB
- **Cloud technologies** - GCP, AWS, Azure
- **Monitoring** - Prometheus, Grafana, GCP Cloud Logging
- **Async Event driven** - RabbitMQ, Apache Kafka, GCP pub/sub, celery, GCP cloud functions.

- **Others** - Docker, Nginx, JIRA, Confluence, Google Analytics, Microservices, Server sent Events, NumPy, Pandas, Big Query, Shell Scripting, Caching

Languages

English, Hindi, Assamese, Nepali

Hobbies

Theatre & acting, watching movies.

Awards

Employee of the Quarter, Impact Analytics, 05/2022