

# Sourav A S

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## Experience

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**Software Development Engineer II**, Tata 1MG – Bangalore, Karnataka Oct 2022 – Present

- **Designed and implemented a QR code-based SKU tracking system** for warehouse operations, reducing order turnaround time (TAT) by **1.3 hours** and cutting QC manpower by **53%**, resulting in **monthly savings of Rs. 5 lakhs**.
- **Built real-time backend validation mechanisms** for QR code verification, eliminating manual interventions and reducing errors by **25%**.
- **Developed an automated order assignment system** for warehouse operations, leveraging **Server-Sent Events (SSE)** to reduce picker idle time by **40%** and improve overall operational efficiency.
- **Engineered scalable REST APIs** using **Ruby on Rails** and **Python (Sanic Web Framework)**, optimizing database performance and enhancing backend infrastructure scalability.

**Software Engineer** Tata Health – Bangalore, Karnataka Dec 2021 – Sep 2022

- **Designed and implemented an idempotent database migration tool** for microservices, reducing DevOps tickets by **70%** and centralizing migrations across **PostgreSQL** and **MySQL** databases.
- **Built an automated author tracking system** using Git commits, integrating email-based error notifications to improve deployment reliability and reduce manual intervention.
- Developed an **interactive mental health module** with **rule-based flows** for user acquisition, enabling **condition diagnosis** and **symptom severity classification**, resulting in a **10% increase in user visits**.
- Led **backend development** for Tata Health's consumer and provider platforms, optimizing **microservices architecture** and **API performance** through advanced query enhancements.

**Software Engineer** Pelatro – Bangalore, Karnataka Jun 2019 – Nov 2021

- **Developed an internal profile configuration interface** using **Angular** and **Spring Boot**, automating field creation and reducing manual configuration time by **80%**.
- **Designed and implemented REST APIs** with **Test-Driven Development (TDD)**, leveraging **Angular**, **Spring Boot**, and **PostgreSQL** to streamline operational workflows and improve code reliability.
- **Built a configuration-driven Core Java ETL tool**, enabling dynamic data transformation and processing through flexible rule specification, reducing development time by **60%**.
- **Integrated Apache Kafka** for real-time data processing, implementing a modular architecture using **Object-Oriented Programming (OOP)** principles to enhance system scalability and maintainability.

## Skills

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**Programming & Web Development:** Python, Ruby on Rails, Java, SpringBoot, RESTful APIs, HTML, CSS & Javascript

**Cloud & Infrastructure:** AWS, Docker, Kubernetes, Kafka, Linux

**Databases:** PostgreSQL, MySQL, MongoDB, ElasticSearch

## Certifications

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**Cloud – AWS Certified Solutions Architect – Associate** Nov 2024 – Nov 2027

**HackerRank – Problem Solving (Intermediate)** Jan 2025

**Coursera – Algorithmic Toolbox** Feb 2025

## Education

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**NSS College of Engineering, Palakkad** – BTech in Computer Science Aug 2015 – Mar 2019

**Jawahar Navodaya Vidyalaya (JNV)** – 12th Grade, Science (Grade: 91.6%) Mar 2015

**Jawahar Navodaya Vidyalaya (JNV)** – 10th Grade (CBSE) (Grade: 10 CGPA) Mar 2013