

Sajal Sharma, Software Architect

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LINKS

[Website Portfolio](#), [LinkedIn](#), [Medium](#), [Freecodecamp](#), [Github](#)

PROFILE

A **Software Architect (Back-end and Infra)** with 8 years of experience who understands **Infrastructure**, working as a **Infra Platform (DevOps)** engineer and have managed **Kubernetes** in both **GCP & AWS**. Understand and manages Databases (**postgres/MySQL/Redis**). Have created multiple products and 1 organization from scratch. Started my career as a **Web Developer (2015-16)** and worked on React Native at the same time. **Engineering Lead** for 4 years.

EMPLOYMENT HISTORY

Dec 2022 — Present	Architect (Platform Engineering), Dunzo Remote <ul style="list-style-type: none">Architect for Infra-platform (DevOps) and Developer Productivity Engineering.Management of ~100 Micro-services with Kubernetes.Architect Security Module with Cloudflare WAF, API Rate limits, Bot management, and cleanup of Secrets across services.Architect and modularization of Jenkins code for CI.Management of multiple PostgreSQL instances across organization. Kuberenetes Jenkins Docker Google Kubernetes Engine Google Cloud PostgreSQL CI/CD
May 2020 — Nov 2022	Founding Member & Engineering Lead, Orange Health (YC S20) Remote <ul style="list-style-type: none">1st employee of the Organization, joined on Day 1, built systems from 0 MRR to 3.5 Cr MRR.Built central Authentication Microservice using JWT in 2 days that powers 6 microservices.Built central Payment Microservice by integrating Razorpay, used by 3 microservices.Built Matching Engine (Scheduling Microservice) that matches customers with Phlebotomist on-demand and slot wise that include Calendar/Roster Management, Slot Management, Geofencing, City/Hub Management. Caters to Logistics and Reverse Logistics of the supply chain.Built Central Backend Microservice that caters to Orange Health Apps and web (both Doctor and Patient) that connects with PostgreSQL, Firebase Realtime DB (for Chat service), Firebase cloud functions, Redis, AWS SQS (for Async operations).Built Central Communication Microservice for SMS, WhatsApp and Email notification.Built internal dashboards using Low-code platform Retool.Dockerised all the repositories. Created Kubernetes clusters for staging and production environments.Setup Application Logging Architecture and guidelines using Dataset.Setup & Monitor backend systems using New Relic APM.Setup Caching Clusters and architecture on AWS Redis managed service.Setup Backend error logging pipeline using Sentry and Slack notifications.Setup Django boilerplate for Python micro-services and published it as open source.Trained Software Engineers to become standalone Product Engineers.Took care of Product requirements without a PM for initial 1.5 years of the org alongside the founders.Supported as 1st respondent of Production issues for 2 years (avg resolution time - 10 minutes) Python (Django) Docker K8s PostgreSQL Firebase Redis AWS nginx New Relic Sentry Celery ECR Github Actions Application (Scalyr) s3 SQS Load Balancing (ALB) Bastion Servers OOP & Design Patterns No-Code & Low-Code systems
Mar 2019 — Apr 2020	Engineering Lead, Flobiz (Formerly Koinex) - Backend Developer Bengaluru <ul style="list-style-type: none">Setting up the boilerplate for Phoenix based application (Elixir language) including Error and Application logging using Airbrake.Led the implementation of JWT based authentication service.Analytical study of business health of MSME sector by architecting Tally data in PostgreSQL. Elixir (Phoenix) Airbrake Sentry Functional Programming PostgreSQL Redis
Oct 2017 — Mar 2019	Sr. Software Engineer, Practo Technologies - Backend Developer Bengaluru <ul style="list-style-type: none">Used Firebase for socket connections between devices and NoSQL database.Created differential pricing model architecture for different specialities based on geographical locations.Managed deployments for Practo Consult Service (Practo's Product) and took care of the infrastructure (Cron server, Worker server, the Application server). Firebase PHP (Symfony) TDD Sentry Graylog Memcache MySQL
Jun 2015 — Sep 2017	Software Engineer, Practo Technologies - Fullstack Developer Bengaluru <ul style="list-style-type: none">Created Doctor web answering platform for questions asked to them by consumers of the service.

- Contributed and maintained Ray Follow-up (a chat feature which enables patients to chat with their doctor after their physical appointment).

Angular | React

EDUCATION

Aug 2013 — May 2015	M.Tech Computer Science, IIIT Hyderabad 8.55 CGPA	Hyderabad
Aug 2009 — Jun 2013	B.Tech Information Technology, MAIT, GGSIPU Graduated with 85%	New Delhi
Apr 2007 — May 2008	12th CBSE - 91.4%, KV Shalimar Bagh	New Delhi

SKILLS

Python & Django	Firebase
Backend Development	Redis
Kubernetes & Docker	0 to 1 Builder
PostgreSQL/MySQL	AWS/GCP

MISC

Dean Merit List (IIIT Hyderabad)

Got the honour to make it to the Dean's Merit List for 4th Semester M.Tech CSE securing 9 CGPA.

GATE Score

Achieved a GATE CSE percentile of **99.38** for 2013 examination.

SOME NOTEWORTHY PROJECTS

Search Engine

Built a Search engine that indexes a static **42 GB** Wikipedia dump for faster retrieval as part of a course undertaken in IIIT Hyderabad by the name **Information Retrieval & Extraction**.

LASER Harp

Built a Harp (musical instrument) using **Arduino** Micro-controller where we used LASERs instead of wires that was powered using **Stepper Motor**. Such musical instruments are used in Concerts. Built it under INR **6,000**. (Final Year B.E. Project)