

Sajal Sharma, Engineering Lead

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LINKS

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

EMPLOYMENT HISTORY

May 2020 — Present	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) <p>Python (Django) Docker K8s PostgreSQL Firebase Redis AWS nginx New Relic Sentry Celery ECR Github Actions Application (Scalr) s3 SQS Load Balancing (ALB) Bastion Servers OOP & Design Patterns</p>	
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. <p>Elixir (Phoenix) Airbrake Sentry Functional Programming PostgreSQL Redis</p>	
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). <p>Firebase PHP (Symfony) TDD Sentry Graylog Memcache MySQL</p>	
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). <p>Angular React</p>	

EDUCATION

Aug 2013 — May 2015	M.Tech Computer Science - 8.55 CGPA, IIIT Hyderabad	Hyderabad
Aug 2009 — Jun 2013	B.Tech Information Technology - 85%, MAIT, GGSIPU	New Delhi

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)