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

- **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 connnects 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

- 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 archietecting Tally data in **PostgreSQL**.

Elixir (Phoenix) | Airbrake | Sentry | Functional Programming | PostgreSQL | Redis

Oct 2017 — Mar 2019

Sr. Software Engineer, Practo Technologies - Backend Developer

Bengaluru

- 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

- 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 - 8.55 CGPA, IIIT Hyderabad

Hyderabad

Aug 2009 — Jun 2013

B.Tech Information Technology - 85%, MAIT, GGSIPU

New Delhi

Apr 2007 — May 2008 | 12th CBSE - 91.4%, KV Shalimar Bagh | 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)