

Sejal Chougule

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Work Experience

Supervity, Senior Solution engineer (Core team) , October 2021-Present

Hyderabad

- Developed microservice responsible for executing thread-safe raw workflow-logic generated by LLMs and integrating with supervity-automation platform enhancing automated workflow capabilities.
- Worked on enhancing supervity chrome-extension to perform complex UI automation and made it enterprise-ready.
- Carried out version upgrades on Keycloak, rabbitMQ, and other dependant micro-services to **solve 100+** security vulnerabilities and make platform enterprise-ready.
- Revamped automation job scheduling and queuing mechanism in core platform for better throughput and solved bottleneck issues on rabbitMQ to process over **1200 automation-jobs/min**
- Developed SaaS Plans pricing & subscription along with plan provisioning (paid, free-trial, upgrade).
- Led re-structuring and refactoring of legacy web app codebase, incorporating modern React-flow-creation libraries and reduced development cycle from **4 days to 2 days** .

Browserstack, Fullstack Engineer (Growth team) , June 2019-September 2021

Mumbai

- Collaborated with over **30+ engineers** and carried out Ruby on Rails and Ruby version upgrade from 4.1.15 to 6.0.3.6 in the core repository. Resulting in enhanced security and better API performance. Created a detailed guide to streamline future version upgrades and reduce complexity for the engineering team.
- Helped team revamp Unit/Functional Tests CI-CD pipeline & architecture, which in turn reduced unit test execution time from **~21 mins to ~4 mins** . Resulting in faster deployments, increased productivity and better code coverage. CI-CD build time was improved by **85%**.
- Carried out migration of plan/subscription upgrade journey for the end user from Legacy UI (.erb) to react.
- Worked closely with product managers, executed various A/B experiments to boost online sales for browserstack's live and automate product.

Techforce.ai, Product Engineer(Core team) , March 2018-June 2019

Hyderabad

- Patched existing rasa NLP training service with multi-threaded support & improvised model training performance metric (**from 1 to 8 models per VM**) along with log/error collection for better model-retraining resulting in improved nlp prediction results.
- Initiated development of chatbot plugin with a bunch of action widgets, which simplified product onboarding journey and in-app assistance with just few clicks.
- Built teacher-student collaboration platform from scratch with integrated chatbot for **OECD.org**

Binarynumbers, Full Stack Engineer , May 2017-February 2018

Mumbai

- Implemented Leads-management system for DAMAC which syncs user-tracking events (**over ~50K events/hour**) from multiple-marketing channels/landing pages/hubspot/facebook and creates high probability cohort and helps sales-rep make the decision easier and better leads conversion.
- CMS/Website builder for DAMAC Properties Dubai, created a platform to dynamically create and serve marketing landing pages/accelerated-mobile-pages (page speed < 1.5 seconds) by simply using drag-drop.

Skills

Programming Languages : nodeJS, typescript, ruby, golang, python, bash

Frameworks : express, react, react-native, ruby-on-rails, langchain

Database & Tools : postgresSQL, SQL, mongoDB, redis, docker, nginx, rabbitmq, elastic-search, git, llm & gpt

Cloud Platforms : AWS, GCP

Analytics : amplitude, google-analytics, big-query

Personal Projects

xFunc | [@github/xFunc](#)

golang, docker, LLM, langchain, open-ai, rpc

xFunc is an RPC-based service designed to allow users to interact seamlessly using natural language. User input in the form of natural language statements is interpreted as executable code blocks. These code blocks are processed and executed by the service, and the corresponding results are returned to the user.

upweb.io | [@github/upweb](#)

golang, nodeJS, pgSQL, docker, nginx, lets-encrypt(cert-bot)

Developers can easily deploy static/dynamic websites, restapi on upweb just by using a git push command and zero configurations, hosted app gets deployed on a upweb subdomain with SSL certificates. Developers can view/monitor real-time logs on upweb-dashboard

zWorker | [@github/zworker](#)

nodeJS, pgSQL

zWorker is a lightweight publish-subscribe (pub-sub) service built on top of a PostgreSQL datastore. It efficiently leverages PostgreSQL's capabilities to handle thread-safe read/writes transactional queries, enabling reliable communication between publishers and subscribers.

Education

Bachelor in Electronics and Telecommunication Engineering

2012 - 2016

University of Pune