

Software developer

SHREYAS KAPALE

HELLO WORLD

I really like building things for people. I write good code! based on SOLID principles. I am passionate, people friendly, creative and hardworking.

EDUCATION

College - KLS Gogte Institute Of Technology 2018-22, Belgaum - Bachelor of Computer Science and Engineering

Courses - OOPS in Java and Python, DSA in C,DBMS and Compiler Design.

Electives - Advanced Algorithms, Information Security & Networking, Cloud Computing, Software Testing.

WORK EXPERIENCE

Yellow

I

Software Developer (Full time)I

March 2022 - Present

• Complete FullStack - Building product on NestJS (Typescript), Flutter, NextJS GraphQL, React and GCP. Other tools - Mixpanel, Sanity, Mailchimp, CodeMagic etc...

• Notable features built by me end to end

- Backend - built entire direct/scheduled template based notification system for whatsapp, mobile push notification and email ,built coupon system ,ticket-based pdf generation pipeline, Yellow Plus backend with cart system integrated with Razorpay
- Frontend - built BLOC based flutter frontend components for Yellow APP.

• Notable improvements in the code/ DevOps

- Reduced 800ms Graphql calls to 200-250ms using nestjs context as cache and Redis.
- Auto image compression pipeline which reduced document generation time by 90 %
- Managed publishing and build system for Appstore and PlayStore.

Synth YC 21

I

Product Engineer I

October 2021 - Feb 2022

• Wrttien ticket queue based micro-services for async transcription and async diarization, with optimized transcript stitching function.

• Nvidia Riva SDK deployment on g4dn.xLarge,and written load testing automation scripts for Nvidia RIVA GRPC server for Speech to text (ASR)

• User authentication using Oauth PKCE for Electron using AWS Amplify (cognito) with login providers like Google sign in and Apple sign in.

• Writing S3 Policies,Configuring Route53, Google calendar & task's API Integration, Azure batch transcription Integration.

• Worked on front-end API integration.

Infigon Futures

I

Full Stack Developer (Contract)

October 2020 - January 2021

• Built microservice's with FastAPI and containerized on EC2 with docker and load balanced using AWS ELB built a CD/CI pipeline integrated with AWS ECR.

• Built and deployed machine learning API's for personality testing (used for career guidance).

• Wrote automated python web scraping scripts

Informant Networks

I

Software Developer (Internship)

I

August 2017 - October 2017

• Router development, working on OpenWRT Linux.

• Multi-threaded ICMP link monitor with uptime statistics (service for cloud router) which helps in knowing if a link/ iface is down.

• Writing make files for Openwrt packages to run on different embedded boards.

• Firmware update system with SHA based integrity checks, helped in simple secure update.

• Development of real-time graphs and dashboard development.

• Written memory efficient robust code for router control using PHP, OpenWRT UCI & LUA helped in decreasing compute and memory usage of embedded router by more than 50%.

SKILLSET

• Micro-services, GRPC/Restful API's with Authentication & Cloud DevOPS

• Programming languages - Python,Javascript,C++,C,Go,Java.

• Frameworks/OS/Tools - Flutter (Android / IOS) , NodeJS, NestJS, GraphQL, NextJS, Go-Gorilla/MUX/schema/handlers, Flask, FastAPI, Express, Django, Redis, Nginx, AWS (Lambda,DynamoDB,S3,EC2,IAM,BOTO,ECR,Route53,ELB,Amplify),GCP,Cordova, Firebase, MongoDB, Influx DB, MySQL, React,Jenkins, OpenTelemetry,CD/CI OpenCV,Dask, Scikit-Learn, Docker, Basics Of Kubernetes, OpenWRT, Wireshark, TCPdump, Etherape, JQuery, Tailwind, Material UI ,Bash, Linux,Github-actions.

PERSONAL PROJECTS

Bharat Sentinel - Firewall & Antivirus built using Flutter,JAVA android native, Firebase & Python. Unique feature - It generates a local vpn server to make a loopback to isp so that the app can disallow apps based on rules.

Rekori - DevOPS tool for capturing Events and process metrics. Built using FastAPI and InfluxDB

Shortest Path Visualiser - Pure Vanilla Javascript, CSS and HTML5 based BFS implementation for shortest path visualisation.

Bottles - A wholesaler inventory app built using Flutter & Firebase.

CheapGPT.xyz - 1000 + daily users, top trending tool on futurepedia, uses gpt4 and search api to find the cheapest way to buy a product.

JIO-FiberAPI - A unofficial python package for JIO Fiber Router, to control it via python.

MYQID - Complete QR based visiting card generator with Location sharing Flutter App.

GITSY - A Complete student profile, placement and skills manager with notification system built for my college with student and placement cell roles. Stack - MongoDB, React, Express, Nodejs, JWT auth.

NOTABLE ACHIEVEMENTS

• Gold winner at National level - INSEF fair hosted by Science Society of India, winner among 100+ teams building a robotics project with computer vision and decision making capabilities . (INSEF - Indian Science & Engineering Fair)

• Recognized By Science Society Of India and Rotary Club for Innovations.

• Was invited to BARC - Bhabha Atomic Research Centre as a mentee for a robotics project.

• 2 Times Gold Winner at state level INSEF fair (for novel mechanical based mobile charging shoes,patent pending, and RPI based discovery robot)

• Received Social Innovation Award from Science Hack Day India (for Computer vision based anti bunking system).

• Winner of various inter-college hackathons and paper presentations.

LEADERSHIP ROLES

• Coordinator at (BelPY, PyData and PyGIT) Belgaum.

• Mentor at PyCon India 21 & Science Hack Day 17,19

TALKS

• PyFlames 21 - Converting normal routers into cloud routers.

• PyCON India 21 - Introduction to distributed computation using dask.

• Avalanche 2020 - Heart disease detection using KNN

• Avalanche 2019 - RCNN, region based convolutional neural networks.

• Science Hack Day 2017 - How to start programming as a teen.

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