

# Kshitish Deshpande

Backend Engineer



## EDUCATION

### Bachelor of Technology, Computer Science and Engineering

Dr.Vishwanath Karad MIT WORLD PEACE UNIVERSITY

2017 - 2021, Pune

me@ksdfg.dev  
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Pune, MH, India

## PROFESSIONAL EXPERIENCE

### Senior Backend Engineer

Navana.ai

Apr 2021 - Present

### Programming Languages

Go  
Python  
JavaScript/TypeScript

### Frameworks

GoFiber, FastAPI, Flask,  
Django

### Other skills

Docker, Kubernetes, Helm,  
AKS, Git, Github Actions,  
PostgreSQL, MySQL,  
Protobuf/gRPC, Selenium

### Languages

English (professional)  
Marathi (native)  
Hindi (native)

### Social

ksdfg.dev  
[linkedin.com/in/ksdfg](https://www.linkedin.com/in/ksdfg)  
[github.com/ksdfg](https://github.com/ksdfg)

- Designed and developed Sayl, a platform for whatsapp bots used by over 150K users. This includes microservices with shared internal packages, integrations with multiple third party services like Shopify, Razorpay, Facebook Business etc. and scheduled execution of events via cron jobs. Setup CI/CD to deploy the same on Kubernetes. (**Go, GoFiber, Redis Cache, RabbitMQ, Docker, Github Actions, Kubernetes**)
- Built a system with microservices to provide an API for interfacing with existing tools to train custom STT models as well as using STT and NLP models for inferring audio and/or text content. Setup CI/CD to deploy the same on Kubernetes. (**Go, Go-Kit, RabbitMQ, Protobuf/gRPC, Docker, Github Actions, Kubernetes, Swagger**)
- Deployed backend services for an application for collection and verification of over 11M audio files in regional languages and dialects for a project in collaboration with the Bill and Melinda Gates Foundation. Also fixed bugs in backend code as they cropped up. (**systemd, Azure, TypeScript**)
- Deployed and maintained backend services for an integrated chatbot SDK in the Ujjivan Bank app using docker images built on RHEL and deployed on Openshift clusters. (**Python, Flask, MySQL, Docker, Red Hat Enterprise Linux, Openshift**)

## INTERNSHIPS

### Full Stack Developer

Aplic.ai

Feb 2020 - Apr 2021

- Implemented new features, bug fixes, heavy optimizations and code cleanup in a Django monorepo for their website. (**Python, Django, PostgreSQL**)
- Added and updated HTML templates whenever required to enable new frontend designs and features. (**Python, Django, Jinja2 HTML Templates**)
- Setup automated integration tests for the website using selenium to test user flows. (**Python, Selenium**)
- Setup CI/CD process to optimize previously manual deployment process to DigitalOcean VMs where the monolith was deployed as a systemd unit service. (**Gitlab Actions, systemd**)
- Temporarily led the web dev team, helping in designing implementations for new features (both backend architecture and frontend designs), as well as delegating tasks to a team of 4 (including myself). Switched to a full time DevOps role after 2 months of this due to college.

### Backend and CloudOps

NewsShack

May 2020 - Jul 2020

- Wrote scrapers for systematically fetching specific details and links for news articles on 7 news sites like BBC, NDTV, CNBC etc. (**Python, BeautifulSoup**)
- Wrote a CLI to run all the scrapers to fetch articles upto X days (argument given to CLI) old and store new articles in Firestore. (**Python, Firestore SDK**)
- Wrote GitHub Actions to run this scraper at timed intervals in the GitHub worker using crontab. (**Github Actions, crontab**)

## MISCELLANEOUS

### The SCRIPT Group

College Club

Sep 2018 - Jun 2021

- Worked as a Lead Developer, helping in creating tools for automation of tasks in event organization. (**Python, Flask, Selenium, PostgreSQL**)
- Setup questions in Hackerrank and autogenerated test cases for solution validation to be used in our coding contests.
- Conducted workshops on topics such as Basics of Git and Github, Game development with p5.js, Data Structures, Basics of Java etc.