Kshitish Deshpande

Backend Engineer

EDUCATION

Bachelor of Technology, Computer Science and Engineering

Dr.Vishwanath Karad MIT WORLD PEACE UNIVERSITY

2017 - 2021, Pune

PROFESSIONAL EXPERIENCE

Senior Backend Engineer

GrowthX

Aug 2023 - Present

- Built a learning experience platform that allowed over 3600 members to subscribe to a multitude of products and upskill themselves. Designed schemas and APIs to handle members' access to content at an atomic level, along with the ability for admins to add, remove or temporarily extend access. Deployed the system on AWS using Elastic Beanstalk. (**Typescript, NodeJS, Express, MongoDB, Redis Cache, AWS Elastic Beanstalk, AWS S3**)

- Built a real-time collaborative text editor with a fully functioning version history used by over 2500 members. This system uses the Lexical library by Meta as a base, and uses websockets to update content in real time across multiple instances of the client. Deployed the system on AWS using Elastic Beanstalk. (**Typescript, NodeJS, Express, MongoDB, Redis Cache, Websocket protocol, AWS Elastic Beanstalk**)

- Built a platform for over 1700 members to submit assignments using our text editor, and for admins to grade the assignments according to a rubric. Deployed APIs to trigger auto-evaluation of assignments using OpenAI GPT models to generate scores, justifications and feedback for the user to improve the assignment. (**Typescript, NodeJS, Express, MongoDB, Redis Cache, AWS Elastic Beanstalk, OpenAI APIs, Prompt Engineering**)

me@ksdfg.dev
+91 90111 52660
Pune, MH, India

Programming Languages
Go
Python
JavaScript/TypeScript

Frameworks
GoFiber, FastAPI, Flask, Express, Django

Other skills
Docker, Kubernetes, Helm, AKS, AWS, Git, Github Actions, PostgreSQL, MySQL, MongoDB, Protobuf/gRPC, Websockets, Selenium

Languages
English (professional)
Marathi (native)
Hindi (native)
Kannada (basic)

Social
ksdfg.dev
linkedin.com/in/ksdfg
github.com/ksdfg

Senior Backend Engineer

Navana.ai

Apr 2021 - Jul 2023

- 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

Apli.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.