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Ameya Shenoy

Engineering Lead

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Engineering lead with 8+ years of expertise in designing scalable system architecture, leading high performing teams, and delivering AI driven solutions while also maintaining the role of an individual contributor on complex projects

WORK EXPERIENCE

1st Engineer / Engineering Lead

May 2022 - Present

Grapevine

Bengaluru

- Led the company from inception to \$3M seed funding, demonstrating strategic leadership in building and managing a high-performing team of 7 engineers, establishing engineering best practices, and accelerating product development from concept to launch
- Architected and launched a scalable backend API infrastructure using Django, PostgreSQL, and Redis, deployed on Kubernetes, supporting over 600,000 users with 99.9% uptime and robust performance under high concurrent load
- Designed and deployed a real-time data pipeline with Kafka and ClickHouse, enabling analytics on 1M+ daily events empowering driving data driven product decisions that improved feature adoption by 25%
- Implemented advanced search capabilities with Qdrant (semantic search) and Meilisearch (keyword search), increasing content discovery engagement by 80% and enhancing user retention
- Engineered a real-time AI-powered interview platform using LiveKit and ElevenLabs, integrating custom voices and advanced prompt engineering to deliver a highly personalized candidate experience

Project Engineer

Apr 2021 - Dec 2023

e-Yantra, IIT Bombay

Mumbai

- Developed a modular drone platform integrating Raspberry Pi, NVIDIA Jetson AGX, ZED stereo camera, GoPro, GPS, and optical flow sensors using ROS, enabling real-time video streaming, flight data aggregation, cloud-based photogrammetry, and autonomous navigation capabilities
- Designed and implemented a containerized simulation platform, enabling secure, isolated, and reproducible evaluation of robotics and AI workloads
- Engineered a GPU slicing and distribution framework for NVIDIA GPUs, optimizing resource utilization across multiple virtual machines for scalable machine learning training and browser-based remote Linux workstations

Cloud Infrastructure and Security Engineer

May 2019 - Mar 2021

BrowserStack

Mumbai

- Reduced AWS costs by 15% on \$1M annual bill through reserved EC2 instances optimization, snapshot management, and S3 lifecycle policies while maintaining 99.9% uptime SLA
- Enhanced security posture by implementing CIS Controls, improving DMARC rating to 99.54%, setting up VPN for data centers, and deploying Cloudflare to reduce page load times by 3x
- Orchestrated critical infrastructure migrations with <0.1% downtime, and executed disaster recovery planning for AWS

Software Engineer (Research and Development)

Jun 2017 - Nov 2018

Frappe Technologies Pvt. Ltd.

Mumbai

- Implemented email tracking pixels in outbound campaigns, enabling email engagement tracking and allowing targeted follow-ups that boosted response rates by 18%
- Developed Bench Manager GUI for real-time monitoring of Frappe-hosted sites, presented at ERPNext Conference, streamlining system administration tasks and live updates through Socket.IO

SKILLS

Programming Languages	Python, JavaScript (Node.js) / TypeScript, Golang
Web Frameworks	FastAPI, Django, ReactJS, Next.js
Databases	Postgres, Redis, ClickHouse, etcd, Meilisearch, Typesense, qdrant
DevOps / Cloud	Kubernetes, Ansible, Nomad, Terraform, Jenkins, Prometheus, Grafana, Sentry, Kafka
Cloud Providers	Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), Cloudflare
AI	LangChain, Livekit, ElevenLabs, Ollama, vllm
Languages	English, Hindi, Marathi, Konkani

ACCOMPLISHMENTS

- Secured the 1st place across Mumbai, out of 50 teams, by building a Python hand gesture recognition library
- Served as Captain of the college Chess and Basketball teams for multiple intercollege tournaments

EDUCATION

St. Francis Institute of Technology, Mumbai University
Bachelor of Engineering in Electronics and Telecommunication

June 2013 - November 2017
Mumbai