# Ameya Shenoy

May 2022 - Present

Bengaluru

## Engineering Lead

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

Grapevine

- 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**

e-Yantra, IIT Bombay

- 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

BrowserStack

- 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 infra structure migrations with less than 0.1% downtime, and executed disaster recovery planning for AWS

#### Software Engineer (Research and Development)

Frappe Technologies Pvt. Ltd.

- 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
Hobbies	Chess, Basketball

#### Projects

Semaphore - a multi LLM chat application with authentication, web search, resumable streams via a sync engine over websockets, and mobile-friendly interface using Next.js, Postgres

### Education

**St. Francis Institute of Technology, Mumbai University** Bachelor of Engineering in Electronics and Telecommunication May 2019 - Mar 2021

Jun 2017 - Nov 2018

Apr 2021 - Dec 2023

Mumbai

Mumbai

Mumbai