Kushal Chordiya Software Engineer

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EDUCATION

Pune Institute of Computer Technology,

Bachelor of Engineering @

08/2017 - 07/2021 | Pune, India

SKILLS

Programming Languages

Python, JavaScript/TypeScript, Java, Golang, SQL

Frameworks

FastAPI, Express, React, Pytorch

Platforms

AWS, Linux, Kubernetes

PROFESSIONAL EXPERIENCE

SDE-2, Trilogy Innovations (Formerly Codenation)

08/2022 - present | Bengaluru, India

- Led two teams in the development of a social media app, to assist students with memorising content; researched and applied proven user engagement and memory retention techniques.
- Optimised a cloud IDE product; dynamically adjusted Kubernetes node affinities, that enabled multiarchitecture support in a single EKS cluster; achieved a 50% reduction in operating costs.
- Built a highly scalable semantic search engine for LLM-powered search with AWS Lambda and AWS OpenSearch; optimised a custom lambda runtime for a 150ms cold start latency, processing an average throughput of 3k RPS.
- Developed a low-latency reverse proxy with Express and Redis, for rate-limiting and analytics for LLM usage; designed with a well-thought-out architecture, maintaining an average latency of ~4ms.

SDE, Trilogy Innovations (Formerly Codenation)

07/2021 - 07/2022 | Bengaluru, India

- Streamlined the architecture of an existing data processing pipeline, from many complex micro-services to one lean & efficient monolith.
- New architecture increased processing capacity from ~50GB to ~200GB/day and reduced operating costs from ~\$3k to ~\$1k/month.
- Contributed support for three new languages to the internal code analysis platform, using Java Micronaut framework on GKE; scaled the platform to analyse more than a billion LoC weekly.
- Designed a dashboard with code quality insights and weekly coaching cycles for developers with AWS Quicksight.
- Innovated a novel solution for managing application logs, using BTrace for runtime byte-code instrumentation and OpenTelemetery to group logs & traces across services; lowered log ingestion cost by up to 80% while also enabling 2x faster RCA for failures & outages.

Software Developer, Zubi Infotech

01/2020 - 07/2021 | Mumbai, India

- Developed an automated adaptive skill test that dynamically adapts difficulty level based on user performance.
- Generated customised learning paths for students based on the results of adaptive tests; user retention **improved by 40%** after the introduction of customised learning paths.
- Implemented a real-time Computer Vision-based proctor for online tests; used PyTorch models distilled using ONNX runtime to run on CPU with sub 50ms latency.
- Further reduced latency by sampling user streams and batching operations to leverage vectorised computing.

PUBLICATIONS

Big Data Analytics for Sustainable Cities, 11th ICCCNT @

07/2021

Analysis of tree cover across cities to generate insights about sustainability.

DPSRGAN, 6th I2CT ∅

04/2021

A novel Generative Adversarial Network architecture to increase the resolution of images.