

SMITH KAMLESH GAJJAR

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Senior Software Engineer with 4+ years specializing in scalable web platforms, platform architecture and applied generative AI. Delivered products serving 50M+ users with focus on performance and developer experience. Led cross-functional initiatives, high-impact PoCs to move projects from concept to production.

EXPERIENCE

Codecademy (Skillsoft)

Senior Software Engineer

Remote

Jan 2024 – Present

- Led cross-product enhancements for Codecademy and Percipio platforms, integrating **AI driven learning** capabilities and scaling core services, serving **50M+ learners globally**.
- Built **CAISY Presentations (LX Studio)**, a new adaptive AI powered coaching platform delivering automated learner evaluation and feedback, now a **key growth driver** in Skillsoft's portfolio.
- Re-architected Codecademy's web monorepo, used by 5+ engineering teams, **Cutting page load times by 60%** and optimized server side rendering and federated GraphQL queries.
- Delivered **3+ strategic PoCs** (e.g., personalized course generator MCP with reranking pipelines, Cursor extension), **fine-tuning base LLMs with SFT & RLHF** to build Codecademy specific content learning model.
- Architected and implemented Codecademy's **internationalization (i18n) system**, adopted by 5+ teams, enabling **40+ locales** and **30+ country launches**.
- Establishing observability stack (ELK, Grafana, Opsgenie with on-call practices) and ensuring **90%+ test coverage** with automated CI/CD (Jenkins, Docker), cutting **deployment times by 80%**
- Standardized **Gamut Design System**, boosting delivery speed by 40% and shipped an accessible WCAG 2.1-compliant **video player with Live/HLS streaming** and captions support.

Videoverse

Full Stack Developer

Mumbai

Oct 2023 – Dec 2023

- Integrated and managed multi-region payment systems (Stripe, Razorpay, PhonePe), improving checkout success rates and regional compliance

Tekie (Acquired by UOLO)

Senior Full Stack Developer

Remote

Jun 2021 – Sep 2023

- Founding team engineer and backend/platform lead. Scaled a B2B and B2C Ed-tech platform serving **500k+ students across 1000+ schools** with interactive coding curriculum.
- Built an internal **GraphQL-based BaaS** (Backend as a Service) architecture, reduced API latency **from 2s to 300ms (~80% reduction)** via schema redesign, query optimization, and Redis Cache.
- Led GraphQL and platform **team of 7 engineers**, established **code review standards, CI checks**, and reliability practices to raise code hygiene and delivery quality.
- Scaled and managed production **infrastructure across Managed Kubernetes**, MongoDB, PostgreSQL, built **CI/CD with GitHub Actions**, integrated AWS S3, Elastic Transcoder, and CloudFront.
- Improved Page Load and **Core Web Vitals to 99%** of cross-platform web (React), mobile (React Native) & desktop (Electron) app through code-splitting, SSR, and server-side data prefetching.
- **Delivered 5+ product PoCs**, on-site research at 30+ schools and Built multiple coding tools: an offline Python editor powered by WASM, a drag-and-drop Blockly playground and [mongodb-aggregation-builder](#) for query optimisation.
- Established **observability and analytics** (New Relic, Sentry, ELK, GA/GTM/Looker Studio) and key product/performance instrumentation to monitor and improve app health.

InVideo

Front-end Developer Intern

Mumbai

Jun 2019 – Jul 2019

- Built new user facing modules by converting designs from Sketch and InVision into pixel-perfect and responsive screens using Angular, SCSS and TypeScript.
- Improved cross-browser inconsistencies in the interface using BrowserStack across 5+ different web browsers.

PROJECTS

Devbox

- Cross-platform developer toolbox bundling everyday utilities into a single offline app, reduced tool-switching and startup time for common workflows. Built with Tauri (Rust) and React.

Lookahead

- Look ahead Apollo GraphQL fields with recursive joins (\$lookup) in a single MongoDB Aggregation Query resulting in reduction of more than 80% database calls, eliminating N+1 problem in GraphQL completely.

ZenithDB

- A framework-agnostic, local-first state and sync engine. Powerful IndexedDB wrapper which provides reactive subscriptions, offline-first syncing, and type-safe queries.

mongodb-aggregation-builder

- Utility Library for building MongoDB Aggregation Pipeline in an easier and more readable way using Typescript.

Termis

- Define iTerm2 terminal emulator layouts and commands using YAML configuration file, launch everything with a single command. Built using Python.

Statement of work generator

- A full-stack AI-powered tool to generate Statements of Work (SOW) using multi agent workflows and memory-based retrieval along with compliance and user feedback.
- Built using React, Python (Flask), LangGraph, Langchain and PostgreSQL with PGVector Extension for RAG

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Ruby, GoLang.

Frameworks: GraphQL, Next.js, NodeJS, Ruby on Rails, ReactJS, Svelte, Angular, Flask, CSS/Sass, Electron, Tauri.

Databases & Queue: MongoDB, PostgreSQL, MySQL, Redis, Elastic Search, RabbitMQ, SQS.

Cloud & DevOps: Docker, Kubernetes, AWS, Azure, Github Actions, Jenkins, Logstash, Grafana, NGINX

AI & LLM Frameworks: LangGraph, LangChain, OpenAI APIs, retrieval-augmented generation (RAG), RLHF & SFT fine-tuning, vector stores (PGVector, Pinecone), A2A, MCP.

Tools: Datadog, Sentry, Newrelic, Jmeter, Playwright, Jest, Git, BrowserStack, Looker Studio, GA/GTM

EDUCATION

Vivekanand Educational Society's Institute of Technology

Bachelor Of Engineering In Computer Science

2018 – 2021

Mumbai, Maharashtra

K.J.Somaiya Polytechnic

Diploma In Computer Engineering

2015 – 2018

Mumbai, Maharashtra