

Kartik Avadhani

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Summary

Full Stack Software Engineer with 3+ years building production applications with Ruby on Rails, React, Go, and Python. Experienced in APIs, microservices, background jobs, and AWS/Docker delivery, with hands-on AI integration using OpenAI APIs, prompt engineering, structured outputs, and RAG. Work spans job distribution and data pipelines, legal-research products, and AI-assisted website auditing.

Skills

Programming Languages: Ruby, Python, Go, TypeScript, JavaScript

Backend and APIs: Ruby on Rails, FastAPI, REST APIs, HTTParty, Sidekiq, JWT and service-token authentication

AI: OpenAI API, prompt engineering, LLM integration, RAG, structured outputs, Model Context Protocol (MCP)

Data and Databases: Apache Airflow, ETL, Google and Meta Ads APIs, SQL, PostgreSQL, Redis, MongoDB

Frontend and Experiments: React, Next.js, React Query, GrowthBook, Google Analytics 4 (GA4) event tracking

Cloud and Testing: AWS, Terraform, Docker, CI/CD, RSpec, Cypress, Vitest

Experience

HeyJobs GmbH | Berlin, Germany

Software Engineer | Nov 2025 – Present

- Built daily integrations that publish job listings to the German Federal Employment Agency, Adzuna, XING, and StepStone; work on the government job board increased traffic from that channel by 40%.
- Optimized MasterFeed, an hourly CSV feed of roughly 25,000 jobs, by streamlining Parquet processing and node generation; built Airflow pipelines combining Google and Meta Ads data for campaign budget optimization.
- Added AI-assisted job-content improvements to Ruby services with validation and fallbacks; built FastAPI/MCP tools for ticket triage, code review, and incident context.
- Improved budget-service queries and asynchronous batching, and helped modernize Rails services and Docker CI/CD, cutting release time by at least five minutes.

LTV Co. (BeenVerified.com) | Bengaluru, India

Software Engineer | Jan 2025 – Nov 2025

- Integrated an external legal-data provider into the Rails backend and authenticated React client, adding request validation, pagination, caching, and background data retrieval.
- Built reporting that combines case records with dockets, filings, parties, attorneys, and judges; connected saved case, opinion, and oral-argument reports to the BeenVerified experience.
- Built a configurable React and TypeScript legal search interface with filters, sorting, and exact-match search; teammates extended it with new search categories without changing the shared page.
- Built detailed legal research pages and delivered AI-generated opinion summaries and Neighborhood Insights across the app and shared library; contributed reusable components and subscription checkout flows.

Akrity Computing Pvt. Ltd. | Bengaluru, India

Associate Software Engineer (Intern to Full-time) | Aug 2023 – Jan 2025

- Built Rails and React features across two healthcare platforms, working with clients from requirements through release.
- Improved Sidekiq email processing with SendGrid and webhook events; automated proprietary operational reports with Python.

Projects

PixelAudit: AI Website Audit | Rails, RubyLLM, LLM prompt design, React, TypeScript, Playwright, axe-core | **Live sample**

- Built an AI-assisted audit workflow that combines desktop/mobile browser captures and accessibility checks with SEO and Generative Engine Optimization (GEO) analysis in reviewable reports.
- Designed evidence-grounded LLM prompts for visual and semantic analysis, producing structured SEO content and GEO clarity recommendations with source references; these guide edits rather than predict rankings or citations. Current AI and SEO/GEO flows are not yet production-verified.

TraceMend | Python, FastMCP, MCP, SQLite, OpenCode | **GitHub**

- Built a Python CLI and FastMCP server to analyze OpenCode and generic JSON traces for repeated calls, failed retries, and search-reuse opportunities.
- Stores runs and findings in SQLite; proposed evidence-backed AGENTS.md edits can be previewed, approved, applied, and undone through the local CLI.

AgroKconnect | Rails, SQLite, Action Cable, Devise | **GitHub**

- Built a Rails community app where farmers list and find seeds, crops, tools, and tasks; added Devise authentication, search, profiles, events, notifications, and Action Cable messaging.

Food Delivery System (2023) | MongoDB, Express, React, Node.js | **Frontend / Backend**

- Built a MERN ordering app with JWT/bcrypt authentication, React ordering and cart/checkout flows, and dynamic price calculation over a Node/Express API backed by MongoDB.

Education

KLE Technological University | Hubballi, India

Bachelor of Engineering in Automation and Robotics | May 2019 – June 2023