

NISHANT MOGHA

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Full Stack Software Engineer

SUMMARY

Full-stack software engineer who designs and ships reliable, production-grade systems end to end from system design and clean architecture to testing, documentation, and deployment. Works across the stack with React, TypeScript, Node.js, Python, and PostgreSQL, building scalable, secure multi-tenant SaaS and owning features from loosely defined requirements to release. A strong collaborator with a problem-solving mindset who values clean code, broad test coverage, and clear documentation, with applied experience building AI agents and LLM systems on top of solid engineering fundamentals.

EXPERIENCE

Fullstack Developer

Sep 2025 – Present

Ganethra IT Services Pvt Ltd

- Built an AI agent for retail data analytics that serves tenants on web and WhatsApp, backed by data-extraction workflows and an MCP server over existing APIs.
- Rendered agent results as generative UI with charts and tables, and tuned the system for LLM response time and cost.
- Helped design the core Identity and Access Management system (social sign-on, RBAC, JWT, OIDC) used across all services.
- Helped build a 10-stage, configuration-driven POS data ingestion pipeline with multiple source connectors and secure credential storage.
- Set up automated documentation generation with the Fumadocs framework for critical codebases, keeping API and developer docs in sync across teams.
- Managed deployment and uptime for 15+ production services.

Frontend Developer

May 2025 – Aug 2025

Ganethra IT Services Pvt Ltd

- Built the POS analytics dashboard for reporting, including a custom data-grid package and ECharts visualizations.
- Added multi-format exports (CSV, Excel, PDF) for reports and dashboards.

Independent Software Consultant & Technical Creator

Jan 2022 – Present

Self-employed

- Build and ship full-stack web applications for clients, handling design, development, testing, and deployment.
- Run “Your Code Lab”, a YouTube channel on software architecture and best practices that has grown to 4,250+ developers.
- Partnered with ZegoCloud to build SDK tutorials and open-source demo projects.

Associate Software Engineer Intern

Apr 2022 – Aug 2022

Firewires Oneiot Pvt Ltd

- Rebuilt the customer portal in React and Material UI, improving usability metrics by 30%.
- Designed 20+ reusable UI components in Figma, implemented 50+ design changes, and integrated 15+ backend APIs.

PROJECTS

High-Performance Browser-Based Non-Linear Video Editor github.com/nimone/fast-video-cut | fast-video-cut.pages.dev

A client-side video editor that runs entirely in the browser, with multi-clip timeline editing, frame-accurate scrubbing, and lossless exports up to 4x faster rendering than comparable browser-based editors.

- Used the WebCodecs API for GPU-accelerated decoding and OPFS for local storage, so editing and export happen on-device with no server processing.
- Avoided the CPU bottlenecks of WebAssembly FFmpeg builds by remuxing the bitstream directly instead of re-encoding, achieving up to 4x faster render times than similar solutions.
- Wrote a custom remuxing engine that snaps edit points to GOP keyframe boundaries, so exports stay lossless and run at disk speed with no quality loss.

Implemented CRAG: Self-Correcting AI RAG Agent over SEC filings github.com/nimone/crag | c-rag-virid.vercel.app

An agentic RAG system that implements the CRAG research paper (arXiv:2401.15884) to cut hallucinations in standard RAG, improving answer accuracy by up to ~19% over standard RAG, answering questions over real 10-K and 10-Q SEC financial filings.

- Grades each retrieved passage with a reranker (benchmarked against an LLM-as-judge baseline) and routes the query through one of three corrective paths: refine high-confidence context, web-search fallback for low-confidence, or a blend for ambiguous cases.

- Built the full pipeline: SEC EDGAR ingestion and embeddings into pgvector, a model-agnostic generation layer (Vercel AI SDK + OpenRouter), and token-level SSE streaming with cited answers.
- Added request tracing with Langfuse and a live inspector UI that shows relevance scores, the action taken, and the web fallback as the agent self-corrects.

Secured Forms: Anti-Spam Form Backend Designed and built a production-grade service that protects web forms from spam and abuse, combining AI content classification with layered honeypot and CAPTCHA defences to filter bad submissions in real time.

- Built REST endpoints with Next.js, Node.js, and PostgreSQL, plus the persistence and validation layer for low-latency handling.
- Added webhook integrations that forward clean submissions to downstream tools and notification channels.

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University

Master's, Computer Applications (MCA)

Jul 2023 – Jun 2025

- CGPA: 8.23

Indira Gandhi National Open University

Bachelor's, Computer Applications (BCA)

Jul 2019 – Jun 2022

SKILLS

Languages: TypeScript, JavaScript (ES6+), Python, Go, SQL, HTML5, CSS3

Fundamentals: DSA, OOPs, Scalable System Design, REST API Design, Problem Solving, Attention to Detail, Root-Cause Analysis

Frontend: React, Next.js, Tailwind CSS, shadcn UI, Responsive Design, Accessibility, Performance Optimization, Figma

Backend & Databases: Node.js, Express, FastAPI, REST APIs, PostgreSQL, MySQL, JWT, OIDC

Testing & Documentation: Jest, Playwright, Unit & Integration Testing, Fumadocs, API Documentation

AI & LLM: Vercel AI SDK, AI Agents, Mastra, MCP Servers, RAG, pgvector, OpenRouter, Langfuse

DevOps & Automation: Docker, Git/GitHub, CI/CD, N8N

AI-Assisted Development: Claude Code, Codex, GitHub Copilot

OPEN SOURCE & COMMUNITY

- Founded “Your Code Lab”, a YouTube channel on software architecture and best practices, now at 4,000+ developers.
- Partnered with ZegoCloud to produce SDK tutorials and open-source demo projects.
- Dokploy & Kaneo: fixed bugs in these open-source projects by analysing and resolving root causes effectively, demonstrating strong problem-solving and attention to detail.
- Maintain the shadcn-theme-switcher npm package (15 themes, light/dark, cross-tab sync).
- Maintain several public GitHub gists of reusable React components.

LANGUAGES

- English: Business level
- Japanese: Low-intermediate level