

Ravi Kishan

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SUMMARY

Software Engineer specializing in distributed systems, systems programming, and applied AI. Builds low-level infrastructure from first principles — a deterministic UI runtime, a language interpreter, and a fault-tolerant key-value store — alongside production agentic-AI and quantitative platforms. Named inventor on a published Indian patent application; open-source author (1,000+ downloads).

EDUCATION

Master of Computer Applications (MCA) — VIT Vellore May 2026 · GPA: 9.5/10 (≈3.80/4.0)
Bachelor of Computer Applications (BCA) — PIMR, Gwalior May 2024 · GPA: 9.6/10 (≈3.84/4.0)

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, Go, Rust, C++
AI/ML: PyTorch, LangChain, LangGraph, MCP, RAG Pipelines, Vector DBs (FAISS/Pinecone), Fine-tuning, LLM Optimization, Prompt Engineering
Backend: Node.js, Express, FastAPI, Spring Boot, GraphQL, gRPC, REST, WebSockets, Microservices, Kafka
Frontend: React, Next.js, Redux, TailwindCSS, Module Federation
Databases & Infra: PostgreSQL, MongoDB, Redis, Elasticsearch, AWS, Azure, GCP, Docker, Kubernetes, Terraform, CI/CD, Linux, CUDA
Concepts: Data Structures & Algorithms, System Design, Distributed Systems, Concurrency, Caching, Scalability, Fault Tolerance, Performance Optimization, Object-Oriented Design

EXPERIENCE

Zimyo — Agentic AI Engineer Gurugram · Apr 2026 – Present
• Built an agentic AI platform for HRMS automation using LangChain and LangGraph, enabling natural-language multi-step workflows across payroll, attendance, and employee-lifecycle modules.
• Engineered a dynamic API-ingestion engine that parses REST schemas and auto-generates executable workflow graphs, eliminating manual configuration for 5+ HR modules.
• Reduced LLM inference costs by 70% by consolidating multi-turn workflow generation into a single schema-constrained LLM call via optimized prompt chaining.
Arrowhead Capital Management — Quantitative Developer Intern Mumbai · Jul 2025 – Apr 2026
• Designed a vectorized backtesting engine processing 5M+ time-series records using SIMD intrinsics, cutting execution time from 18s to 4.2s (4.3× speedup).
• Built automated ETL pipelines with multi-layer validation and caching, improving research throughput by 30%; implemented rolling-window risk analytics (Sharpe, max drawdown, VaR).
Chiti Infotech — Full-Stack Developer Intern Gwalior · Jan 2023 – Sep 2023
• Migrated a legacy PHP monolith to a modular React SPA (40% faster frontend) and reworked the REST API layer with caching, cutting average latency 25%.

PROJECTS

Relax.js — Deterministic UI Runtime / React Alternative 2025 – Present
Dual-runtime TypeScript library: fine-grained signals/effects, a deterministic scheduler (priority lanes + budgets), and a Babel-compiled fast path with SSR, hydration, and static-site generation. 35% faster rendering vs React; 1,000+ NPM downloads.
github.com/Ravikisha/Relax.js | npmjs.com/package/relaxcore
RelaxLang — Custom Interpreted Programming Language Jan 2024
Full language runtime in Java/C (lexer, parser, AST, interpreter); Dockerized execution environment.
github.com/Ravikisha/RelaxLang | hub.docker.com/r/ravikishan63392/relaxlang
Distributed Key-Value Store — Fault-Tolerant Datastore in Go Nov 2024
Scalable key-value store with sharding, replication, and multithreaded request handling across nodes for high availability.
github.com/Ravikisha

PATENT

A Multilingual Chatbot for Indian Epics Using Generative AI and LLMs — Indian Patent Application (Published)
App. No. 202541117128 · Filed Nov 2025 · Published 19 Dec 2025. RAG system over the Bhagavad Gita reaching >95% retrieval accuracy across 5 languages (OpenAI embeddings, LangChain, FAISS/Pinecone); evaluated with BLEU and BERTScore.

ACHIEVEMENTS & COURSEWORK

Achievements: Graduation Gold Medalist · 1,200+ DSA problems solved · Microsoft Learn Student Ambassador · HackerRank Certified Software Engineer
Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, System Design, Compiler Design