RAVIRAGHUL SIVAKUMAR

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PROFESSIONAL SUMMARY

Aspiring Software Engineer pursuing an Integrated M.Tech. Experienced in building scalable full-stack systems, automated pipelines, and AI/ML workflows to enhance reliability and performance.

TECHNICAL SKILLS

- **Languages:** Python, Java, C, C++, JavaScript, TypeScript
- **Web & Backend:** HTML, CSS, React, Next.js, Node.js, Express, FastAPI
- **Databases & Services:** PostgreSQL, MongoDB, Redis, Firestore, Supabase, Clerk
- **Mobile Development:** React Native, Expo
- **AI & Development:** TensorFlow, LangChain, LangGraph, RAG
- **DevOps & Tools:** Docker, Kubernetes, GitHub Actions, Jenkins, n8n, PostHog, CodeRabbit, Postman, Git, Vercel

EXPERIENCE

- **Freelance Design Engineer** | Freelance | 06.2026 – Present
  - Designed and shipped conversion-focused landing pages for 2 clients across the fitness and construction sectors.
  - Delivered kcmconstructions.in for a construction firm and sculptfitness.in for a fitness studio, each built around a single clear conversion path.
  - Translated client requirements into responsive, performance-minded interfaces from first draft to live domain.
  - Owned the full delivery cycle solo — scoping, design, development, domain setup, and post-launch maintenance.
  - Tags: Next.js, TypeScript, Tailwind CSS, React, Responsive Design, Vercel, Client Communication

EDUCATION

- **Vellore Institute of Technology (VIT)** | Integrated M.Tech (Software Engineering) | CGPA: 9.13 | Expected May 2028
  >Relevant Coursework: Data Structures & Algorithms, Distributed Systems, Database Management Systems, Operating Systems, AI
- **The Ashok Leyland School** | Hosur, India | **Grade: 91.8%** *Higher Secondary School*

CERTIFICATIONS

- Oracle Cloud Infrastructure Certified Generative AI Professional | Link to Badge. Skills: Generative AI, OCI, Large Language Models (LLMs), AI Agents, Prompt Engineering, Retrieval-Augmented Generation (RAG), Artificial Intelligence (AI), Machine Learning, Deep Learning.

ENGINEERING PROJECTS & CONTRIBUTIONS

- **Mindcraft Media Pipeline:** Architected a distributed video processing pipeline; utilized GitHub Actions to automate orchestration across 5 concurrent APIs (YT, Gemini, IG). Optimized infrastructure for high-throughput scaling, resulting in 200 k+ organic views.
- **Voice Agent Pipeline:** Built an n8n workflow that reads upcoming Google Calendar appointments, uses Gemini to extract structured appointment details, and triggers automated phone calls through the Retell API.
- **Dev-Events Platform:** Architected and deployed a full-stack event discovery platform using Next.js 16 (App Router), React 19, TypeScript, and Tailwind CSS. Engineered backend APIs and server actions with MongoDB Atlas and Mongoose for scalable data modeling and dynamic event management. Integrated Cloudinary for asset uploads and leveraged Next.js 16 caching strategies alongside edge function region matching to minimize latency. Embedded PostHog analytics for user insights, feature flagging, and session replays, with automated CI/CD pipeline deployments via Vercel.
- **Crop Disease Classifier:** Developed a scalable CV model (TensorFlow); automated data ingestion pipelines using tf.data partitioning and prefetching to minimize training overhead on large datasets.
- **Get-Job:** Architected an AI-powered job matching platform using Next.js, integrating Google Gemini and Groq for resume parsing and job-fit scoring. Leveraged Adzuna API and headless automation for live listings, while streamlining CI/CD workflows with MCP servers and CodeRabbit for automated reviews.
- **Voice RAG:** Built a voice-enabled RAG pipeline with Sarvam Saaras v3, FAISS, BM25, Groq/Cerebras, and NLI-based verification to retrieve multilingual passages and return cited answers or refuse unsupported queries.
- **Bill-Pilot:** Built a mobile billing application using React Native and Expo, following and implementing the application's core screens and functionality from the development tutorial.