

HITHESH R

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SKILLS

Languages: Python, JavaScript/TypeScript, SQL (Postgres), C
Frontend / Backend: Next.js, React, Node.js, FastAPI, Express.js, Prisma
ML / Tools: LM Studio, OpenAI APIs
DevOps / Data: Docker, AWS (EC2/S3)

PROFILE

Product-minded full-stack engineer and ML tinkerer (B.Tech CSE, BMSCE '26). Experience building AI application systems for accessibility, conversational character models, and scalable web platforms. Comfortable shipping end-to-end systems.

EDUCATION

BMS College of Engineering <i>Bachelor of Technology — Computer Science & Engineering</i>	Bengaluru, India <i>2022 – 2026 (Expected)</i>
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EXPERIENCE

Jr. Full Stack Developer — Vaia <i>Full-Time</i>	Bengaluru, India <i>Aug 2026 – Present</i>
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- Continued development of the ESG reporting platform across frontend, backend, and AI-assisted reporting workflows using React, Next.js, TypeScript, FastAPI, and PostgreSQL.
- Worked on production features spanning ESG framework reporting, data ingestion, analytics, and report-generation workflows.

Tech Intern — Vaia <i>Software Engineering Intern</i>	Bengaluru, India <i>Jun 2026 – Jul 2026</i>
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- Built ESG reporting platform features using React, Next.js, TypeScript, FastAPI, and PostgreSQL to streamline sustainability data management and reporting workflows.
- Developed backend APIs for ESG analytics, emissions tracking, and framework-based reporting, integrating data from multiple organizational sources.

AI Intern — LTTS <i>Software Engineering Intern</i>	Bengaluru, India <i>Nov 2025 – May 2026</i>
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- Implemented multi-queue, multi-threaded pipeline managing Whisper ASR, Piper TTS, and LLM inference (MCP-based), ensuring non-blocking execution over UDP communication with DCU, complete with wake-words, drowsiness session management, and chat history management.
- Working on RAG-based fault analysis assistant for engine/system diagnostics, enabling automated service recommendations and log reporting to technicians.
- Demoed edge AI capabilities to executives from Uber, Honda, TotalEnergies, and Zoox to showcase LTTS strength.

COLLEGE PROJECTS

Official Hostel Website (FAROUCHE) Full-Stack	<i>2025 – 2026</i>
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- Co-headed the digital transformation of FAROUCHE, the flagship and only annual event for BMSCE hostellers, replacing traditional Google Forms and WhatsApp coordination with a centralized full-stack web platform approved for the first time in hostel history.
- Designed and deployed a scalable event management system (Next.js, Node.js/Express, MongoDB) serving 3,000+ hostel students, enabling structured registrations, real-time dashboards, results tracking, and automated notifications.

- Improved operational efficiency and reliability by integrating Apache Kafka for event-driven email workflows, Cloudinary for media storage, and Google Sheets API for real-time dashboard updates, eliminating manual coordination bottlenecks.

KingKohli | *Character AI*

2025

- **Product:** A personality-driven conversational agent that emulates cricketer Virat Kohli's never-give-up mindset and approach to the game.
- **Tech:** Structured JSON prompt-response datasets (600+ quality lines), LM Studio local deployment, Mistral 7B fine-tuned with Unsloth methods (SFT and DPO).
- **Outcome:** Tuned for consistent tone and safety guardrails; implemented tool-calling style handlers for context-aware callbacks and persona persistence.
- **Learnings:** Understood how to fine-tune an LLM and effectively deploy it locally.

CERTIFICATION

Neural Networks and Deep Learning: Certified by DeepLearning.AI, taught by Andrew Ng ([Certificate Link](#))

PyTorch Fundamentals: Certified by DeepLearning.AI ([Certificate Link](#))

PROFESSIONAL ENDORSEMENTS

- **Acknowledgment of Technical Contributions – LTTS**

Purusothaman Ganapathy, Senior Architect, Larsen & Toubro Technology Services

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