Hashim Mohamed T.A.

Backend-first full-stack developer · Kochi, India

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Education

B.Tech, Computer Science and Engineering · Model Engineering College — Expected May 2028
CGPA 8.26 / 10
Class XII (CBSE) 95.2% · Class X (CBSE) 89.6% · St. Mary's Public School, Thamarachal — Mar 2024

Skills

Languages	Python, Java, TypeScript, SQL
Backend	FastAPI, Spring Boot, Express, Fastify, REST APIs, WebSockets, Pydantic, pytest
Data & DevOps	PostgreSQL, MongoDB, Supabase, Docker, GitHub Actions, Git, Vercel
Frontend	React, Next.js, Tailwind CSS
LLMs & retrieval	LLM agents, tool calling, structured output, RAG, embeddings, semantic search, LLM evals

Projects

rolecall · LLM job recommendation agent — Python, PostgreSQL, pgvector, Pydantic, Docker, GitHub Actions, pytest — code

- Built an LLM job recommendation agent with 6 tools that remembers dealbreakers across sessions and explains every match with a fit level, reasons and gaps, rejecting any job it never retrieved.
- Built an incremental pipeline syncing 5,624 postings hourly into PostgreSQL via content hashing.
- Built hybrid search over local embeddings in pgvector and Postgres full-text, personalised per user.
- Evaluated 5 retrieval systems on 573 graded judgments; reranking raised nDCG@10 from 0.666 to 0.748.

Vestiq · AI wardrobe and stylist — Next.js, Express, Gemini — code

- Built a debounced vision pipeline that batches each user's upload burst into 1 extraction call, not 1 per photo.
- Validated vision model output into 7 attributes per garment, then matched outfits across the wardrobe.

BrightLoop · subscription billing, Odoo Hackathon — Fastify, PostgreSQL, Next.js — code

- Designed idempotent billing where a unique index on subscription and period blocks duplicates.

lockin · exam study rooms — Next.js, Supabase, PostgreSQL — live

- Built exam study rooms secured by row-level security on every PostgreSQL table.

StoryWeave · 1st prize, Grab A Pi Hacknight — FastAPI, WebSockets, GPT-2 — code

- Built live multi-writer story rooms over FastAPI WebSockets in 24 hours, with GPT-2 plot twists.

Bridgio · 1st prize, MecLabs — PyTorch, MediaPipe — code

- Trained a PyTorch classifier on MediaPipe hand landmarks that recognises 16 signs in real time.

Experience

Web Lead · NSDC MEC, Model Engineering College, Kochi — Jun 2026 – present

- Maintained the club website and co-planned Relang, a contest to rewrite codebases in another language.

Web Lead · MEC.CONF 2026, IEEE Computer Society MEC Student Branch — Sep – Oct 2026

- Built the conference website with screen-reader support and a pairing and puzzle platform for the pre-event.

Software Developer Intern · Linsys Innovations, Kochi — Jun – Oct 2024, Jun 2026

- Led the opticals module restructuring in TreatPatient, a clinic and hospital platform used by 100+ clients.
- Built GST-compliant bill generation for full, partial and credit bills.

Chief System Architect · Spaceborn (remote) — Oct 2025 – Jan 2026

- Ran YOLOv8 object detection at 24 fps on a Raspberry Pi 5 for drones and designed the cloud backend.

Leadership & Achievements

Unit Coordinator · Rudhirasena (KTU NSS Blood Cell), Unit 340 — Aug 2026 – present

- Handled blood request cases, sending student donors to hospitals, and organised donation camps.

Instructor, TinkerHub Operation Java · 2nd prize, Operation Darknoon 2025