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

EXPERIENCE

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

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

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

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

Software Developer Intern, Java & Spring Boot, Linsys Innovations, Kochi — Jun 2026

- Worked on inventory in TreatPatient, a clinic and hospital platform used by 100+ clients.

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

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

Software Developer Intern, Java & Spring Boot, Linsys Innovations, Kochi — Jun 2024 – Oct 2024

- Led the opticals module restructuring in TreatPatient.
- Implemented GST-compliant bill generation for full, partial and credit bills.

PROJECTS

rolecall, LLM job recommendation agent | Python, PostgreSQL, pgvector, Docker — github.com/justhashim/rolecall

- Built an LLM job recommendation agent with 6 tools and cross-session memory of dealbreakers.
- Every match states a fit level, reasons and gaps; any job the agent never retrieved is rejected.
- Synced 5,624 postings hourly into PostgreSQL with an incremental pipeline using content hashing.
- Combined local embeddings in pgvector with PostgreSQL full-text into hybrid search, 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 — github.com/justhashim/Vestiq

- Built a debounced vision pipeline that batches each user's upload burst into a single extraction call.
- Validated vision model output into 7 attributes per garment, then matched outfits across the wardrobe.

BrightLoop, subscription billing, Odoo Hackathon | Fastify, PostgreSQL, Next.js — github.com/justhashim/BrightLoop

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

lockin, exam study rooms | Next.js, Supabase, PostgreSQL — lockin-orcin.vercel.app

- Secured exam study rooms with row-level security on every PostgreSQL table.

StoryWeave, 1st prize, Grab A Pi Hacknight | FastAPI, WebSockets, GPT-2 — github.com/justhashim/StoryWeave

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

Bridgio, 1st prize, MecLabs | PyTorch, MediaPipe — github.com/justhashim/bridgio

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

SKILLS

Programming 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

LEADERSHIP & ACHIEVEMENTS

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

- Handle blood requests and send student donors to hospitals; organised donation camps.

Instructor, Operation Java, TinkerHub MEC — Jul 2026 – Aug 2026

- Taught a 6-day Java study jam.

2nd prize, Operation Darknoon cybersecurity hackathon — 2025