

Bhargav Raghavendra

Bengaluru (Bangalore), India | bhargavrag16@gmail.com | +91-9980687226 | bhargavraghavendra.com | linkedin.com/in/bhargav24 | github.com/Bhargs24

SUMMARY

I take an undocumented problem, own it from the first conversation to production, and ship the solution into the customer's own environment. I work across the whole stack, from LLM agents and RAG to full-stack and infrastructure, and I am at my best on the part nobody measures: I find it, build the instrument that measures it, then follow what it says even when it kills the plan. I find the bottleneck, build the thing, and put it in front of someone.

EXPERIENCE

Founder, Wivme [K-12 EdTech](#) | Bengaluru | Aug 2025 - Aug 2026

- Audited **8,831 generated questions** and found the difficulty labels were an artifact: on hard questions the correct answer was the longest option **85% of the time**, beatable without reading the question. Rebuilt generation to remove it.
- Took it to production: a **RAG content pipeline over ChromaDB with BM25 re-ranking at \$0.30 to \$1.50** of model and speech spend per concept, **six containerised services with CI on every repository**, and **138 versioned migrations** that abort a deploy on failure so the last good build keeps serving.
- Built the school **go-to-market myself**, from ICP and target lists through outreach to the offer I put in front of schools, then read the demand signal honestly and **repositioned onto the teacher workflow** the research surfaced.

XR Developer, Internship, Cogniverse Limited, London [Healthcare XR](#) | Remote | Oct 2024 - Sep 2025

- Worked directly with **UCLH clinicians** to validate real surgical procedures, turned what they demonstrated into interaction flows that held up in the headset, and shipped the experience for hospital use as an **early team member**.

Machine Learning Intern, Research, ICCW, IIT Madras [Research](#) | Remote | Dec 2024 - Jun 2025

- Built and evaluated **machine learning models in Python** to classify water quality from real-world datasets, owning cleaning, features, training, validation and error analysis.

PROJECTS

Plumblime, agent reliability harness for accounts payable | Python, Apache-2.0, 118 tests | github.com/Bhargs24/plumblime

Answers what a controls team asks before go-live, whether an agent can be trusted to approve invoices. Caught an agent that reached the **correct outcome on 191 of 192 runs** while still breaking a **mandatory control on 7 that completed**, which no output-level eval can see. Declares the invariants a run must never violate, perturbs the input in ways a correct agent should ignore, and localizes each breach to a named step with a **Wilson confidence interval**. Found my own headline result rested on an unfair baseline and **published the correction instead**. **2,082 runs committed for recheck**.

RQSM Engine, deterministic LLM orchestration | Python, FastAPI, sentence-transformers | github.com/Bhargs24/rqsm-engine

Moves control flow off the language model into a **six-state machine with a static transition table**, so the same document yields a **byte-identical session plan across 40 replay runs**, compared by SHA-256. A resume index returns a learner to the exact unit they left. Basis of patent IN202641086881.

Trespass, tenant isolation checker for Postgres RLS | Python, MIT, zero dependencies, 441 tests | github.com/Bhargs24/trespass

Reads a team's own Postgres and Supabase migrations and answers the question that blocks a go-live: **can one tenant see another tenant's rows**. Returns a **counterexample with the SQL that reproduces it**, or a proof that no such leak exists, never a guess. I wrote the SQL parser and a from-scratch decision procedure that handles NULL correctly under three-valued semantics, then **differential-tested it against Z3 on 3,200 generated formulas**.

Beachhead, market mapping engine | Python, MIT, standard library only | github.com/Bhargs24/beachhead

Reads live Greenhouse, Lever and Ashby boards for a company universe I curated by hand and flags **which accounts have a buyer-persona role open right now**, every row linked to the exact posting. The thesis lives in JSON, so buyer titles, exclusions, weights and geography **retarget to a new sector without touching code**. Maps **81 companies** across robotics and B2B SaaS operations.

PATENTS

System and Method for Deterministic Orchestration of Multi-Role Conversational Sequences from Input Documents | IN202641086881 A1. Filed and published, IPO India, July 2026. Inventor.

Reality System and Method for Contextual Visualization and Interaction with Industrial Equipment | IN202641032832 A1. Filed and published, IPO India, March 2026. Co-inventor.

SKILLS

Customer-facing delivery: Requirements discovery with domain experts, process reengineering, solution architecture, pilot delivery, stakeholder communication. Domains: healthcare and clinical workflow, K-12 education, industrial maintenance.

AI and automation: LLMs and agentic systems, RAG and retrieval, evaluation frameworks and guardrails, agent failure analysis, deterministic orchestration, multi-tenant isolation and row-level security, workflow automation, data governance and reconciliation.

Engineering: Python, TypeScript, Go, SQL, Dart, C#, FastAPI, React and Next.js, Flutter, Node.js, PostgreSQL, Redis, Docker, CI/CD, AWS S3, Unity.

LEADERSHIP

Secretary, then Advisory Board, Juvenile Care | VIT, Vellore | 2022 - 2026

- Ran the organisation as Secretary across **20+ community programs**, owning governance, approvals and university clearances, and built partner-NGO outreach that placed **500+ student volunteers**.

AWARDS

Placed at every hackathon entered. Winner, DevSoc 2025 against **1000+ participants**, and Hackovation 2025. Best UI/UX at Yantra 2025 and Hackwars 2025. Best AR/VR Project, World Engineering Day, VIT 2025.

EDUCATION

B.Tech, Computer Science and Engineering (Business Systems) | Vellore Institute of Technology, Vellore | 2022 - Aug 2026