KARTHIK RAJESH SHET

AI Engineer · Production AI Agents, MCP & RAG · Founder, CodeMyFYP

kartikrshet@gmail.com | +91-97426-58379 | Bengaluru, Karnataka, India | linkedin.com/in/karthik-rajesh-shet | github.com/karthikrshet | karthikrajeshshet.vercel.app

SUMMARY

AI Engineer who builds AI agents that run in production, not just demos. Shipped payment-recovery agents selected for demo at Razorpay Builders Day, a self-healing services agent (2–5 s recoveries), an offline Razorpay API emulator on npm, a prompt-injection-resistant support agent, and Career-Agents, an open-source MCP platform with 167+ agents. Puts guardrails in code, evaluates what models attempt, and ships with test suites. Previously founded moneycase (10,000+ users, 100M+ page views a month). Mentored 40+ interns.

SKILLS

AI & LLM: LLM API Integration (Claude, OpenAI, Gemini), MCP (Model Context Protocol) Server Development, Agentic AI Workflows & Orchestration, Multi-Turn Tool-Calling, RAG Pipelines (Retrieval-Augmented Generation), Vector Search & Embeddings (pgvector), Prompt Engineering & Structured Outputs, Multi-Agent Systems (LangChain, LangGraph), AI Watermarking & Provenance (C2PA, SARIF)
Languages: Python, TypeScript, JavaScript (ES6+), Java, Kotlin, SQL
Backend: Node.js, Express.js, Fastify, Flask, REST APIs, GraphQL, Microservices, Webhooks, BullMQ (Job Queues)
Frontend: Next.js (App & Pages Router), React.js, HTML5, CSS3, Tailwind CSS
Data & Cloud: PostgreSQL, MongoDB, MySQL, Redis, Prisma ORM, AWS, Docker, CI/CD, GitHub Actions, Linux, Nginx

EXPERIENCE

Founder & AI Engineering Lead — CodeMyFYP IT & Software Solutions

Oct 2025 – Present (Founder & CEO until Sep 2026) · Bengaluru, Karnataka

- Lead AI engineering for CodeMyFYP's agent products, from architecture to evaluation and deployment, at an MSME-registered software company building AI products, SaaS platforms and e-commerce systems for startups, businesses and colleges.
- Built EnrolPilot, a multi-agent system on Razorpay Agent Studio (lead-calling, payment-recovery and insights agents) that calls leads, sends official payment links over WhatsApp, email and SMS, recovers failed payments and escalates to a human. Selected for demo at Razorpay Builders Day (Oct 2026).
- Designed guardrails for agents near money: never collect OTPs, card or bank details; only send official payment links; tool-call validation, human escalation and full interaction logging.
- Shipped open-source agent systems with test suites anyone can run without an API key: AegisHeal (self-healing services, 2–5 s recoveries, 143 tests), TrailCut (tax-smart Regular-to-Direct mutual fund planner, 1,340+ tests), LocalPay (offline Razorpay API emulator on npm) and a Paylane support agent that resisted prompt injection in 3/3 runs with 0 policy-breaking refunds (111 tests).
- Built Cody, a multi-turn, tool-calling WhatsApp AI sales agent (Flask + Claude Haiku) that handles INR/UPI pricing queries and mirrors Hindi/Hinglish, with a live dashboard for conversations, tool calls and failure modes; run a tool-calling Claude agent handling 2,000+ conversations a month.
- Built and maintain a production Model Context Protocol (MCP) server exposing 10 tools for Career-Agents, an open-source AI Career OS with 167+ specialised agents across 19 divisions, a global npm CLI and a Spoken Voice Lab in 27 languages; cut token usage by up to 85% through context-budget design.
- Scoping a Kannada voice-agent pipeline (STT, LLM, TTS, telephony) for about 30,000 outbound calls a month, evaluating vendors on latency, language quality and cost per call.

Founder & CTO — Stealth AI Startup

Sep 2026 – Present · Bengaluru, Karnataka

- Co-founding an AI startup in stealth mode; responsible for technical direction, system architecture and engineering.
- Building the product around production AI agents, with the same principles as my open-source work: guardrails in code, evaluation before launch and human escalation.

AI Writer (Contract) — Mercor

Nov 2026 – Present · Remote

- Contract work on LLM training and evaluation projects: writing and reviewing high-quality content used to train and evaluate AI models. Project details are confidential.

Founder & Lead Platform Engineer — CodeMyFYP Academy — EdTech SaaS Platform

May 2026 – Present · Bengaluru, Karnataka

- Run CodeMyFYP Academy, an internship programme in full-stack and AI engineering listed on the AICTE National Internship Portal; mentored 40+ interns through production-style projects, code reviews and project evaluations.
- Designed the curriculum around Git workflows, Agile delivery, APIs, databases and deployment.
- Launched and engineered a multi-tenant EdTech SaaS platform serving students, educators, recruiters and administrators across universities affiliated with VTU, Bangalore University and Mysore University.

Founder & Product Engineer — moneycase — URL Shortening & Link Monetization Platform

Jul 2021 – Sep 2024 · India

- Built and scaled moneycase, an ad-supported link-shortening platform where users earned a share of the revenue from their traffic.

- Scaled the platform to 10,000+ registered users, 10M+ links a month and 100M+ page views a month.
- Engineered high-volume redirection, link analytics and earnings dashboards for publishers.

Freelance Software & AI Engineer — Self-employed

Oct 2020 – Present · Remote

- Build web applications, automation and AI solutions for clients and businesses, from requirements to deployment and support.
- Deliver full-stack products in React, Next.js, Node.js, TypeScript and Python.
- Build LLM-powered assistants, document-processing and workflow-automation agents.

SELECTED PROJECTS

AegisHeal — Self-healing platform: an AI agent detects service failures, finds the root cause and recovers them in 2–5 seconds github.com/karthikrshet/aegisheal

- Three simultaneous injected failures (crash, memory leak, bad release) recovered automatically in 2–5 seconds each.

TrailCut — Tax-smart Regular-to-Direct mutual fund switch planner with an AI agent team that never invents a number github.com/karthikrshet/trailcut

- 1,340+ tests passing with engine coverage of 90% or more.

LocalPay — Open-source Razorpay API emulator — test payments offline with no keys, no ngrok, every edge case one click away github.com/karthikrshet/localpay

- One command to start: npx localpay.

Agent Reliability Lab — Chaos testing for AI agents: inject real tool failures, check invariants and block regressions in CI before production does github.com/karthikrshet/agent-reliability

- 185 passing tests with 85% coverage and mypy strict.

InvarPay AI — Invariant-first financial operations platform: safe payment recovery, explainable fraud scoring, ledger reconciliation and an MCP checkout agent github.com/karthikrshet/InvarPay

- 170 passing tests.

EDUCATION

Master of Computer Applications (MCA) — AI & Machine Learning — Surana College (Autonomous) — Affiliated to Bangalore University (2023 – 2025)

Bachelor of Computer Applications (BCA) — Global College of Management — Affiliated to Karnataka University (2020 – 2023)

ACHIEVEMENTS

- EnrolPilot, my payment-recovery agent team, was selected for demo at Razorpay Builders Day (Oct 2026).
- CodeMyFYP was accepted into Anthropic's Claude Startup Program (Oct 2026).
- Took part in India Builds with Claude, India's first Claude builders event hosted by Anthropic, Razorpay and Peak XV (Jul 2026).
- Introduced Career-Agents at Google Cloud's "Architecting the Future of AI" event at Google Ananta, Bengaluru (Aug 2026).
- Symbolic Neural Risk Platform was included in the XERJ Corpus Hub (Oct 2026).
- Selected as one of 30–35 builders for the Razorpay Rize x AI Learn Circle "Fix My Itch" buildathon (Nov 2026).
- Shipped 5 open-source AI agent systems in 60 days (AegisHeal, TrailCut, LocalPay, EnrolPilot, Paylane Support Agent), each with tests that run without an API key.