

MOHANKUMAR RAMACHANDRAN

KEY ACHIEVEMENTS

🏆 Open-Source AI Native IDE
Gained 2K+ GitHub stars and 15K+ downloads, with zero marketing

🏆 Interactive Portfolio Website
A Windows XP-themed web experience that tells my childhood story

🏆 Built 3D Scanner
End-to-end photogrammetry scanner, built from scratch in 3 months

🏆 Innovative QR File Transfer
Developed a tool enabling 100% offline file transfers using QR codes

PUBLICATIONS

Method and System for Facilitating Payment Transactions in Offline Mode
https://www.tdcommons.org/dpubs_series/3754/

Method and System for Processing Queries with Query Filters on a Server
https://www.tdcommons.org/dpubs_series/5562/

SKILLS

Agentic AI · LangGraph · LangChain
RAG Pipelines · Langfuse · Python
TypeScript · JavaScript · FastAPI
Nuxt · Vue.js · Tailwind CSS
Cloudflare Workers · AWS · Hadoop

OPEN SOURCE

Merged PRs to:

- Microsoft VS Code
 - LangChain-AI / LangGraph
 - Hono.js
 - Continue (AI IDE)
 - Google Firebase
 - A2A Protocol
 - Portkey AI Gateway
- and many more

LANGUAGES

Tamil ●●●● Native
English ●●●○ Proficient

Open Source Contributor | Tech Blogger | Software Engineer

🌐 <https://github.com/mohankumarelec> 🌐 <https://mohanram.dev>
✉️ mail@mohanram.dev <https://www.linkedin.com/in/mohrama>

SUMMARY

Engineer at heart — I like building things that work well and sharing them with the world. Over the years, I've worked across AI, data, full-stack, and infrastructure, picking up whatever's needed to ship good software.

Most of my side projects end up open source. I learn best by building, and if it helps someone else along the way, even better.

When I'm not coding for work, I'm usually tinkering with my homelab — self-hosting things, breaking things, fixing things.

EXPERIENCE

Principal Software Engineer 01/2026 - Present
[Red Hat](#)

- Building agentic AI systems at scale — end-to-end development covering observability, evaluation, scalability, and production-grade deployment pipelines.

Full Stack Generative AI Engineer 04/2025 - 01/2026
[GSK Plc](#)

- Built AIGA, a LangGraph-inspired Python framework for GenAI app development with reusable agents and sub-agents, enabling rapid prototyping and deployment across GSK.
- Designed standardized protocol wrappers (A2A, MCP) to expose agents and tools for cross-team and cross-platform AI integration across GSK.

Founder 08/2024 - 04/2025
[Flexpilot AI](#)

- Founded flexpilot.ai, an open-source AI-native IDE and VS Code extension — hit **2K+ GitHub stars** and **15K+ marketplace downloads** with zero marketing or promotion.
- Only open-source IDE to support GitHub Copilot Extensions (Agent Marketplace) while using VS Code's native UI.

Data Scientist / Data Engineer 06/2019 - 08/2024
[Visa Inc.](#)

- Built an OpenAI-compatible proxy server for Visa's internal AI platform, letting developers use frameworks like LangChain directly — increased developer productivity by 2x and won the company hackathon.
- Built generative AI tools for the sales team to create presentations using Office JavaScript APIs.
- Led a next-gen analytics platform for analyzing billion-dollar revenue data using Hadoop, Hive, Spark, and Tableau.
- Built a custom semantic layer with a JDBC driver to optimize BI query routing, reducing license costs by \$5M annually and winning a separate company hackathon.

Freelancer 08/2015 - 06/2019
<https://www.freelancer.in/u/mohankumarelec>

- Designed and delivered solutions in Python, Node.js, and Gen AI with a 95%+ client satisfaction rate across multiple freelance projects.

EDUCATION

M.Tech, Electrical Engineering 06/2018 - 06/2019
[Indian Institute of Technology Madras](#)
B.Tech, Electrical Engineering 06/2014 - 06/2018
[Indian Institute of Technology Madras](#)

FUN PROJECTS

Air-Gapped QR Code Transfer 11/2023 - 12/2023
Web-based tool for 100% offline file transfer via QR codes — built with Vue.js, pako, qrcode.js, and zbar-wasm for encoding, compression, and scanning.
<https://github.com/mohankumarelec/airgapped-qr-code-transfer>