Akhil S Nair

APPLIED AI ENGINEER | MULTI-AGENT SYSTEMS | SOFTWARE ENGINEERING

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PROFESSIONAL SUMMARY

Applied AI and Systems Engineer with technical leadership experience building multi-agent AI platforms, business automation and production software. Independently developed a company-wide AI Employee Platform adopted by development, marketing and finance teams. Combines hands-on LLM and backend engineering with production delivery, robotics and hardware-software development.

PROFESSIONAL EXPERIENCE

31 IT Solutions *2026–Present*

Technical Head / AI Systems Engineer

- Independently architected, built and deployed a company-wide multi-agent AI Employee Platform used by development, marketing and finance teams; also developed a conversational multi-agent AI assistant application.
- Led backend completion, API engineering and production stabilisation across 31 Compact, OrderMint and EvolveX, each serving **300+ business customers** across SaaS and standalone deployments.
- Helped improve software delivery cycles from **2–3 months for MVPs to 30–40 days for production-grade systems** through improved engineering execution and development practices.
- Provided technical direction for associated mobile applications and led internal AI bootcamps for new and existing employees.

31 Automations *2026–Present*

Founding Member / AI Automation Engineer

- Built AI-agent workflows connecting LLM-based decision-making with software automation and operational systems; developed business automation for Lanatech.

ZEO Platforms *2026–Present*

Founder / AI Systems Engineer

- Building AI-first software products spanning agentic workflows, local LLM infrastructure, RAG, backend services and developer tooling.

Independent Robotics & AI Development *2023–Present*

Robotics and Intelligent Systems Developer

- Developed ROS2 navigation systems improving localisation and autonomous-navigation performance by **30%**; built OpenCV/YOLO pipelines reducing defect-detection effort by **65%**, and multi-agent mapping simulations achieving **95% terrain coverage**.

SELECTED ENGINEERING PROJECTS

ClawCommander – Edge LLM Controller GitHub

Python/FastAPI system translating natural-language instructions into deterministic JSON commands for robotics and IoT systems.

Second-Brain Semantic Agent GitHub

Local RAG pipeline for semantic processing, metadata extraction and relationship generation across Markdown/Obsidian knowledge bases.

Oranguttan – Claude Code Plugin Manager GitHub

TypeScript tooling for managing Claude Code plugins, skills and developer capabilities.

TECHNICAL SKILLS

AI: LLMs, Agentic AI, Multi-Agent Systems, RAG, MCP, Tool Integration, Semantic Search, Local LLMs
Programming: Python, TypeScript, JavaScript, C++, SQL, Bash
Backend: FastAPI, Node.js, REST APIs, PostgreSQL, Redis
Infrastructure: Docker, Kubernetes, Linux, Git, CI/CD, Cloud Deployment
Robotics: ROS2, Nav2, MoveIt2, Gazebo, SLAM, VIO, EKF, Sensor Fusion, OpenCV, YOLO

EDUCATION

B.Tech. Robotics and Automation Engineering *2019–2023*

Saintgits College of Engineering, Kerala, India