GOKULAVASAN MURALI

gokul.0369@gmail.com · +91 - 8220869194

SUMMARY

Product and engineering Architect with 10+ years shipping products from **0→1** across consumer, enterprise, and embedded/IoT - from resource-efficient on-device models to **multi-agent** platforms processing millions of actions. Builds and leads teams that deliver agentic architectures, durable pipelines, and **computer vision** systems into production and scale.

CORE COMPETENCIES

Agent Architecture & Harnesses
Context Engineering · RAG
Multi-Agent · MCP · Tool calling
Redis · Kafka · Elasticsearch

0→1 Eng Leadership
Inference & **Fine-Tuning**
Guardrails · **LLM Observability**
System Architecture & Scale

Open Source Models · Determinism
Evals · **Model Security** · Heretic models
ML flow · K8s · Docker · Linux
Python · Node.js · GCP · AWS · Azure

EXPERIENCE

LaunchAI | *Product* 2025 – Present

- Own product direction for an enterprise desktop process-automation product. Building vision-first RPA and agentic workflows, including accounts payable and ERP-connected finance processes.
- Architected agent tooling for deterministic workflows with **dynamic context switching**, **guardrails**, and **prompt management** templates as org-wide standards including **MCP servers**, **tool & function calling**.
- Drove time-to-market from 3 months to 2 weeks, saving $15K/mo per customer through modular agent architectures with hot-swappable model components.
- Defined **model evaluation** strategy for **SVLMs** (Qwen Image, **Fara9b**, **Omniparser**) and **SLMs** including **fine-tuning**, benchmarking, **agent tracing** and **LLM observability**.

Plena Data Inc. | *Head of Engineering* 2023 – 2025

- Led 13 engineers shipping AI product verticals from **0→1**. The **agentic self-serve platform** directly drove the company's acquisition.
- **Sales Platform:** Architected desktop-based **multi-agent** sales platform - 5 specialized agents using existing user sessions for interactable lead research, AI-assisted enrichment, and **multi-channel outreach** across email, LinkedIn, and social.
- **Workflow Engine:** Self-serve **multi-agent workflows** via drag-and-drop with **context engineering** for task continuity. Improved sales by 25% for non-standard lead generation.
- Led post-acquisition integration and cloud platform migration.

Accenture Labs | *Product & Platform Specialist* 2021 – 2023

- **LEO Satellite:** Owned technical direction for orbit prediction (**physics-informed ML**) and **synthetic data generation** pipelines.
- **Tamr:** Architected connectors handling TBs across multi-channel sources with transformation and unified sink. Built product testing framework for Tamr's enrichment product.
- **Mozilla:** Led **entity resolution** and **sentiment analysis** R&D - RAG pipeline, deep learning entity matching, aspect-based sentiment via HuggingFace transformers.
- **Document AI:** Architected **document intelligence** platform - OCR, NER, dewarping, automated summarization, visual flow-of-language mapping, and edit history tracking.
- **Other:** Real-time **facial re-enactment** (**Detectron2** + **MediaPipe**, **one-shot learning**); geospatial tagging platform for satellite imagery ML annotation.

Pramati | *Labs Senior Engineer* 2020 – 2021

- Engineered automated multi-format compliance extraction pipelines (PDF, web, Excel, image, XML) across all US states using Scipy, Selenium, and Airflow orchestration.
- Evaluated **LEGAL-BERT** for AI-driven contract review. Built **Neo4j knowledge graph** for PE competitive intelligence with automated **entity linking**.
- Developed audio-visual **deep learning** framework for real-time **speech synthesis** and 3D face model-driven video generation (**facial re-enactment with one-shot learning**).

Flytta | *Co-founder & CTO* 2016 – 2019

- Co-founded and scaled a mobility company to 22 people (product, engineering, sales, support). Co-owned finance & operations; raised $1.5M **Series A**. Built end-to-end enterprise relocation platforms - corporate portals, vendor management system, and Android/iOS apps.
- **Shipped YOLOv2 object detection** with **on-device ML** inference (**transfer learning** + Firebase) for instant cost estimation on mobile - replacing manual quotation visits. **LSTM anomaly detection** on IoT sensors (Raspberry Pi) with real-time **edge inference** for cargo damage prevention.

PERSONAL

- **Refuse.dev**: MCP security layer that blocks malicious or vulnerable package installs requested by AI agents.
- **slm.expert:** Curated open-weight SLM directory with use-case filters and benchmarks.
- **Agentend.ai:** Open-source framework that replaces the existing backend architecture.