

Shrikanth Vilvadrinath

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SUMMARY

AI Engineer building production autonomous systems across agentic mortgage platforms, manufacturing ERPs, clinical AI pipelines, and live A2A agent networks. Specialises in multi-agent orchestration, LangGraph workflows, and Temporal-backed pipelines, with a graduate machine learning background. MS Data Science, GPA 4.0, University of Maryland.

TECHNICAL SKILLS

Languages	TypeScript, Python, Java, C++, SQL, R
AI / Agents	LangGraph, Temporal.io, OpenClaw, MCP (Model Context Protocol), A2A Communication, Agent Teams, Langfuse, @ai-sdk (Anthropic / OpenAI), Vercel AI SDK
Web	Next.js, React, Fastify, FastAPI, Flask, Django, React Native (Expo)
ML / Data	PyTorch, TensorFlow, scikit-learn, Pandas
Cloud / Infra	AWS (S3, SageMaker), GCP, PostgreSQL, Supabase, Redis, Docker, Turborepo, Vercel, DigitalOcean, Kafka

WORK EXPERIENCE

Confer Solutions AI

Jan 2026 – May 2026

AI Engineer, Remote

Agentic Loan Origination System (LOS) Stack: Next.js · TypeScript · Temporal.io · LangGraph · Supabase · BullMQ · Redis · Turborepo

- Multi-tenant mortgage platform that takes a borrower from application through AI-powered document review, income verification, and underwriting decisioning, with role-specific portals for borrowers, loan officers, processors, and admins; ULDD compliance export and multi-investor rate pricing are built in.
- Four MCP servers handle document retrieval, mortgage data extraction, and encrypted multi-party email. Temporal workflows ensure each origination stage completes durably and is fully recoverable end-to-end.

StoneFactory ERP Stack: Next.js · Fastify · Drizzle ORM · PostgreSQL · Redis · React Native (Expo) · Turborepo

- Full manufacturing ERP covering sales orders, purchase management, CRM, production planning, inventory control, wastage tracking, and multi-level approvals with automated reporting.
- React Native PWA gives field teams real-time access to production updates and on-site inspection tools from any device.

NV Rad Imaging

May 2025 – Dec 2025

AI Engineer, Tampa, FL (Remote)

Stack: Next.js · TypeScript · Supabase · LangGraph · Python · LangChain · Ollama

- Agentic patient intake platform for a longevity imaging centre. Patients submit appointment requests and intake forms; AI agents extract and structure the data, run eligibility checks, and send automated follow-ups end-to-end with no manual handoff.
- Clinical document intelligence layer processes diagnostic reports through an LLM pipeline that extracts key terms, standardises terminology, and surfaces an interactive Q&A interface. Reduced review time ~**35%**, resolved **90%+** of queries autonomously across **100+** reports.

PROJECTS

The Pantheon: Autonomous A2A Newsroom

Next.js · Supabase · OpenClaw · Hermes · Google ADK · A2A · DigitalOcean · Vercel

pantheon.twoby2.dev

- Real-time A2A newsroom where autonomous agents publish articles, monitor live feeds, and surface oracle data with no human trigger. Agents run on a DigitalOcean VPS via OpenClaw and Hermes, communicating asynchronously and self-correcting around the clock.
- Agent communication is built on the Google ADK A2A protocol; OpenClaw brokers task envelopes between Kratos, Loki, Mimir, and Hermes so each agent appends structured output to a shared schema for fully auditable execution.

Git Gardener: Agentic Repo Intelligence

Next.js · FastAPI · Python · PostgreSQL · SQLAlchemy · Temporal.io · Docker

gardener.twoby2.dev

- Connects to any GitHub repository and produces a full health analysis with an LLM-generated reorganisation plan. Temporal workflows power the ingestion pipeline with automatic retries; results appear in a Next.js dashboard with per-repo drill-down and GitHub OAuth.
- The FastAPI backend decomposes each repository into a Temporal activity chain that classifies files, scores complexity, and ranks a cleanup roadmap by impact; all results are persisted in PostgreSQL via SQLAlchemy.

Diffusion / DiT Anomaly Detection

Python · PyTorch · Conda · MVTec AD

[UMD DATA612](https://umd-data612.github.io)

- Detects industrial surface defects on the MVTec AD dataset using a modular diffusion/DiT-style model with a reproducible training pipeline, custom anomaly scoring, and config-driven experiment management.

EDUCATION & ACHIEVEMENTS

University of Maryland, College Park MS, Data Science · GPA 4.0

Aug 2024 – May 2026

IIT Madras BSc., Data Science · GPA 3.5

Jan 2021 – Dec 2024

Vishwakarma Government Engineering College BTech., Electronics & Communication · GPA 3.5

Sep 2020 – Jun 2024

DSA Competition Rank 5 at IITM Madras | NumPy ML Certification (IITM Proctored Exam) | Member, Code Black at UMD College Park