

VINOTH NAGARAJAN

Software Engineer

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SUMMARY

Software Engineer and AI automation lead with nearly 3 years of experience designing production automation, backend services, RAG pipelines, and agentic workflows for maritime logistics. Automated 60+ carrier schedule pipelines, reduced a 20+ hour, 3-person manual operation to a zero-touch daily process, built 100+ workflows/agents for 2 teams, and led a 6-person delivery effort across VOS, Schedule Sync, and CRM automation workstreams. Strong in Python, FastAPI, Django, Airflow, n8n, Celery, Redis, PostgreSQL, LangGraph, and Docker.

CORE SKILLS

GenAI / LLMs: LangGraph, LangChain, AI agents, RAG, prompt engineering, OpenAI API, Anthropic API, vector search, embeddings, guardrails, Multi-agent orchestration

Python / Backend: Python, FastAPI, Django, REST APIs, Celery, Redis, async workers, PostgreSQL, SQL, API integrations

Automation / Data: n8n, Apache Airflow, cron jobs, pandas, NumPy, Excel automation, ETL, data cleaning, data validation

Knowledge Graphs: Neo4j, Cypher, graph data modeling, Python ETL, MCP-style tooling, natural-language data discovery

ML / Data Science: Machine learning, deep learning, NLP, scikit-learn, data visualization, feature engineering, model evaluation

Cloud / DevOps: Docker, Docker Compose, Git, GitHub Actions, CI/CD, Linux, GCP, production release coordination

Leadership: Team leadership, project planning and scoping, scheduling, risk management, issue resolution, AI cost optimization

EXPERIENCE

Software Engineer | Solverminds Solutions and Technologies Pvt.Ltd. | Chennai, India

Oct 2024 - Present

Building GenAI, automation, backend, and data systems for maritime logistics products.

- Designed and deployed the Standardized Schedule System using Python, Django, PostgreSQL, pandas, and Airflow automated daily ingestion and validation for 60+ carrier schedules.
- Reduced a schedule-processing workflow from 20+ manual hours across 3 people to a zero-touch daily cron pipeline that completes in about 6 hours with no manual post-processing.
- Built 100+ AI workflows in n8n and agentic automations for 2 internal teams using LangGraph, LangChain, n8n, OpenAI/Anthropic APIs, shared memory, tool use, and validation guardrails.
- Planned and shipped production features in 2-month delivery cycles using Cursor-assisted development and Hermes agents, fast POCs, modular architecture, PR reviews, production testing, and release checks.
- Led a 6-person delivery effort across Vessel Operating System, Schedule Sync Service, and CRM automation workstreams; coordinated scope, schedules, risks, issue resolution, and business handoffs.
- Built an in-house WhatsApp CRM assistant for 30+ lead/message workflows covering container booking, CRM lead creation, vessel schedules, and container tracking.
- Controlled LLM token cost and production risk by splitting workflows into modular routers/sub-agents, limiting context, validating tool outputs, and preserving answer quality.
- Built RAG pipelines over 50+ pages of PDF technical documents, reaching about 90% retrieval accuracy for domain-specific search and question answering.

Data Analyst | Solverminds Solutions and Technologies Pvt. Ltd. | Chennai, India

Aug 2023 - Oct 2024

Owned data quality, automation, ml models, reporting, and analysis for operational decision-making.

- Collected, cleaned, transformed, and validated high-volume maritime operations data using Python, SQL, PostgreSQL, pandas, and Excel.
- Built interactive dashboards and stakeholder-ready analysis to improve visibility into schedules, operations, and data-quality issues.
- Automated repetitive data workflows and created structured datasets used by backend services, analytics reports, and ML pipelines for real time vessel tracking.

OPEN SOURCED PROJECTS

Graphforge-neo4j - Python, Neo4j, Cypher, MCP, Docker, CI

- Ingests Git repositories (code structure and commit history across Java, Python, TypeScript, and Go) and MySQL / PostgreSQL / SQL Server schemas into one Neo4j graph; MERGE-keyed nodes make every re-ingest idempotent and incremental.
- Ships a read-only MCP server exposing 11 tools for impact analysis, dead-code detection, and paged graph search; published to PyPI, with CI integration tests running against live Neo4j and PostgreSQL containers.

Forked Free Claude Code - FastAPI/proxy APIs, OpenAI Chat Completions, LLM routing, npm/CLI packaging

- Forked Free Claude Code and added launchers (fcc-atomic, fcc-prime, fcc-muse) so multiple coding agents share one local proxy, Admin UI, and provider config.
- Extended Free Claude Code so agents can run multi-turn tool loops through a local proxy, and added goal-oriented launchers where you give a task and Atomic, Prime, or Muse work against your configured models—including Meta Muse on Windows via WSL."

EDUCATION

**B.E.Electronics and Communication Engineering | Jeppiaar Engineering College,
Chennai**

Aug 2019 - Jun 2023

CGPA:8.48 / GradeA+

CERTIFICATION

- Develop generative AI apps in Azure, Microsoft (2026);
- Develop AI agents on Azure, Microsoft (2026);
- Architect production-grade multi-agent AI solutions in Azure, Microsoft (2026);
- Intelligent by Design: Build an AI Agent, IBM (2026);
- AI Fundamentals: Foundations for Understanding AI, IBM (2026);
- Working in a Digital World: Professional Skills, IBM (2026);
- Develop AI Agents, Apps & Automations, Udemy (2025);
- Python & Django - Complete Web Development, Udemy (2025);
- Advanced Learning Algorithms, DeepLearning.AI / Stanford (2024);
- Supervised Machine Learning: Regression & Classification, DeepLearning.AI / Stanford (2024);
- Python for Data Science, IIT Madras / NPTEL (2024);