Varun Menon

AI Engineer

(602)-757-6061 • varunmenoff@gmail.com • LinkedIn • Portfolio • GitHub

SUMMARY

Founding AI Engineer with 2+ years building production AI systems from zero. Sole architect of an AI-powered bookkeeping platform that automates financial transaction categorization and counterparty matching at 94.2% accuracy, helping secure $1.6M in pre-seed funding. End-to-end ownership from data pipelines and context engineering to LLM orchestration, agentic workflows, evaluation frameworks, and cloud infrastructure (AWS/GCP).

TECHNICAL SKILLS

AI & ML: Agentic Workflows, GraphRAG, RAG, MCP, Context Engineering, RLHF, NLP, Deep Learning
Tools & DBs: Neo4j, pgvector, Pinecone, PostgreSQL, Redis, Langfuse, Kafka, Temporal, PyTorch, TensorFlow
Languages: Python, TypeScript, JavaScript, SQL
Cloud & Infra: AWS, GCP, Docker, Terraform, CI/CD

PROFESSIONAL EXPERIENCE

Legix ($1.6M Pre-Seed) | Founding AI Engineer   10/2024 – Present

- **Built the entire AI system from scratch (0 → 1)** for a B2B SaaS bookkeeping platform serving accounting firms. AI classifies financial transactions into the correct accounts and identifies counterparties with **94.2% production accuracy**, eliminating manual data entry across multi-tenant clients.
- **Designed the AI classification engine** that retrieves similar past transactions, leverages knowledge graphs (GraphRAG), and uses agentic querying to match new transactions to the correct accounts. **Improved accuracy from 58% to 90%+.** Evolving toward fully agentic workflows powered by **Context Ledger**, a novel decision-tree architecture for continuous learning.
- **Built a multi-level memory system** that tracks user corrections, preferences, and business rules per client, making AI categorization **increasingly personalized over time** without model retraining. Uses **RLHF** signals to inject learned context at inference time via context engineering.
- **Shipped end-to-end automation** collaborating with the founding team: bank feed ingestion via API and RPA (QuickBooks/ Plaid) → AI classification pipeline with vector embeddings and async processing (Kafka/Temporal) → confidence-scored auto-approval → **RPA pushback to QuickBooks with 2FA handling**. Zero manual intervention.
- **Built a confidence calibration system** with multi-factor scoring. Auto-approves high-confidence transactions and escalates uncertain ones through model fallback then human review. **Drives the platform's hands-off automation.**
- **Implemented full AI observability and evaluation**: Temporal (orchestration), Langfuse (LLM tracing, prompt versioning, **A/B testing with +10.1pp accuracy gain**), Axiom (logging), Sentry (errors), eval workflows, and a custom internal dashboard with health monitoring and Slack alerts.

Auto BIM Route | Software Engineer Intern   01/2024 – 05/2024

- **Engineered an autonomous meeting bot** in collaboration with the ABR team that manages and records meetings across Microsoft Teams, Google Meet, and Zoom. Built a multithreaded architecture with API integration and Virtual Audio Cables, handling **10+ concurrent sessions** while cutting computational cost by **46%**.
- Integrated an **NLP speech-to-text pipeline** for automatic transcription of recorded meetings.

Boson Motors | AI Engineer Intern   06/2023 – 08/2023

- Built an **AI predictive maintenance system** for Light Utility Vehicles using sensor data analysis. Reduced unexpected downtimes by **28%** and extended vehicle longevity by **19%**.
- Developed a custom **OpenCV path-finding algorithm** for autonomous LUV navigation through complex terrains, measuring available spaces and detecting obstacles like trees, animals, and people.

EDUCATION

Master of Science, Software Engineering | Arizona State University | 08/2022 – 05/2024 | **3.8 / 4.0 GPA**

PUBLICATIONS & CERTIFICATIONS

- **"Automatic Bone Age Assessment of Radiographs using Deep Learning"**, IEEE ICSES 2021 (co-author, presented) view
- **OCI Generative AI Certified Professional** | **AWS Certified Cloud Practitioner** | **IBM AI Certified**