Ronit Thummaluru

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DATA & SOFTWARE ENGINEERING EXPERIENCE

AI Engineer (Short Term Engagement) | Stealth Startup   **August 2025 - October 2025 | Brooklyn, NY**

- o Built an AI context enrichment system enabling legal document review agents to auto detect and fetch linked references using **Playwright** and **Trafilatura**, synthesizing external content into model context
- o Researched and benchmarked retrieval embedding models (**Voyage-law-2**, **Gemini text-embedding-004**, **OpenAI**) to determine the best fit for legal-domain question answering; presented findings to the founders to inform model selection and retrieval architecture decisions

AI Engineer Co-op | Radiant Systems Inc   **November 2024 - August 2025 | Plainsboro, NJ**

- o Engineered a Python-based REST API (FastAPI, Pydantic, GPT-4) to classify job postings and auto-generate recruiter-grade Boolean queries, cutting manual effort by 90% and boosting search accuracy 40%
- o Architected a serverless, event-driven pipeline using Python, AWS Lambda, and S3 to process and embed 30,000+ resumes, boosting top-10 match accuracy by 30% with LLM-powered semantic scoring
- o Implemented an AI-powered resume matching system leveraging AWS Textract for data extraction, AWS Bedrock (Claude) for secure embedding generation, and OpenSearch for vector similarity search

Software Engineer Intern| LayerLandAI   **June 2024 - November 2024 | Remote**

- o Built a multi-tenant email campaigns API using FastAPI, SQLAlchemy, and Pydantic; enforced data isolation through Pydantic schema validation and implemented clean service-layer separation for maintainability and scalability.
- o Developed multi-agent orchestration using JavaScript and LangChain with specialized agents for autonomous email drafting, reviewing, and editing, implementing dynamic logic for follow-ups, response detection, and cross-company outreach suppression
- o Delivered a 90% reduction in manual outreach workload by deploying 10+ concurrent pipelines capable of intelligent lead engagement and adaptive decision-making at scale

Data Engineer Co-op | Ahold Delhaize   **June 2023 - December 2023 | Quincy, MA**

- o Built real-time ETL pipelines in SQL & Python to automate IT financial reporting for grocery chain operations, reducing data latency from 24 hours to near real-time
- o Engineered a standardized financial data schema and SQL transformation scripts to unify IT cost reporting across 10+ business units, reducing data discrepancies by 40%

SKILLS

- o **Languages + Tools:** Python, JavaScript, Java, SQL, PySpark, TypeScript, Cursor, CoPilot, MCP tools
- o **Cloud & Data:** AWS (Lambda, S3, Kinesis, Glue, Redshift), Airflow, Azure Databricks, PostgreSQL, MongoDB
- o **AI & LLMs:** AWS Bedrock (Claude, Titan), OpenAI (GPT-4), LangChain, RAG pipelines, Pinecone, FAISS, PyTorch
- o **Automation & Orchestration:** n8n, Apache Airflow, MCP Server Architecture, FastAPI, Docker
- o **Web & App Development:** React, Node.js, Flask, FastAPI, Docker, Git, RESTful APIs

PROJECTS

AI Journal App - Full Stack LangChain Project

- o Building an intelligent journaling web app powered by an **MCP server** that routes entries and queries to specialized **LangChain agents** for summarization, semantic search, and daily insight generation
- o Integrated **LLMs (Claude/OpenAI)**, **Pinecone** for vector storage, and **Python FastAPI**-based orchestration to support RAG-based queries and structured memory logging using UUID metadata

EDUCATION

Northeastern University|Khoury College of Computer Sciences   **2020-2024**

B.S. in Computer Science and Finance   Boston, MA

- o Finnovate Pitch Competition – 1st Place Winner, Funded Fintech Startup
- o Certifications**:** AWS Cloud Practitioner, Databricks Data Engineer Associate

Relevant coursework : OOD, Discrete Structures, Financial Management, Financial Accounting, Algorithms and Data, Investments, Foundations of Data Science, Database Design, MIS, Software Engineering, ML in Finance, Algo Trading