

Noel Gurivindapalli

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Education

Wentworth Institute of Technology, Boston, MA

B.S. Computer Science | GPA: 3.45 / 4.0 | Dean's List (4 semesters)

Skills and Experience

Languages: Python, Java, JavaScript, TypeScript, C, C++, C#, SQL, R

Frameworks/Tools: React, Flask, FastAPI, PyTorch, Pandas, NumPy, Streamlit, Git, Docker, Kubernetes

Cloud/MLOps: AWS (SageMaker, Bedrock, Redshift, Lambda, S3), Azure, MLflow, vLLM

Databases: MySQL, PostgreSQL, MongoDB, Pinecone, ChromaDB

Generative AI/LLMs: GPT, Gemini, Anthropic, Hugging Face, LLaMA, LoRA Fine-Tuning, RAG/Agentic RAG, LangChain, LangGraph, AI Agents

ML: NLP, Transformers, Deep Learning, Classifier Models

Boehringer Ingelheim, Ridgefield, CT

Associate Generative AI Engineer | Feb – Jul 2025

Built RAG system combining LLMs with schema-aware retrieval to enable natural-language querying of pharma datasets.

Designed data pipelines for ingestion & processing; applied LoRA fine-tuning and PySpark for large-scale insights.

Created POCs on Agentic RAG, Graph RAG, AI Agents, and MCP servers; deployed LLMs via vLLM APIs to production.

Integrated Tableau dashboards for AI-powered insights, improving user data exploration and reporting efficiency.

Automated ingestion of pharmacy claims across multiple PBMs (CVS, Optum, Humana, ESI) into Amazon Redshift.

Standardized and validated data with SQL scripts, ensuring alignment with Redshift schemas.

GPT-Based Presentation Maker, Wentworth | Prompting Engineer | Sep – Dec 2023

Built UI with Gradio to summarize PDFs into presentations using GPT-3.5, LLaMA-70B, and Azure LLMs.

Developed REST APIs in Flask and FastAPI for scalable document processing.

Co-authored research paper with faculty on LLM prompting strategies and performance.

Harvard University – Lichtman Lab, Cambridge, MA

Data Analyst Assistant Researcher | Jan – May 2023

Processed and analyzed brain synapse data using Python (Pandas, NumPy, PyTorch, Matplotlib).

Identified neuron pattern correlations and produced visualizations for peer-reviewed publications.

Delivered presentations summarizing insights across multiple datasets.

Datasets were 10's of thousands with duplicates and dead cells, created script to filter and group the relevant neurons

Harvard University – IT, Cambridge, MA

Technical Support Engineer | May – Aug 2022

Created barcode inventory system for printer items, reducing tracking errors.

Resolved hardware/software issues at Science Center help desk.

Built ServiceNow pipeline to automate ticketing workflows.

Certifications

Advanced Java, Python, MySQL, Pandas, Prompt Engineering, NodeJS, HTML

Projects

MailGuard Pro – Capstone mobile app with spam detection (TensorFlow, PyTorch) + OAuth 2FA.

WIT Roommate Finder – Django/PostgreSQL web app with MongoDB backend for student matching.

Leadership

Founder & President, Wentworth Coding Club – Organized hackathons, ideathons, and LeetCode competitions.

Member: CS Society, Robotics Club, Asian Student Association