

## 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

Combined an LLM with a retrieval system (RAG) that fetches relevant schema information or examples of text-to-SQL pairs from a knowledge base to augment the LLM's generation process. The LLM has access to the database schema (table and column names, data types, relationships) to understand the structure of the data it needs to query..

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

**GPT4 Stock analyzer** - Created a full stack app that allows users to input stock tickers to receive the analysis of GPT4 using LangChain to see why the price moved from a certain date and what the model recommends based off the research done in previous nodes. The GUI lays out each individual node, showing the thought process of the Large Language Model.

**Social Media Hook Generator** - Created a full stack app that scraped popular social media sites like X and TikTok to find the most popular content on pages the user inputs, generate the hook of the scraped content and recreate it using Sora AI and upload it to the users page of choice. Used OpenAI Responses API, Structured Outputs and Realtime API.

**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