

# Rosendo Vasquez II

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## Experience

<b>Dell</b> <i>Software Engineer 2</i>	Round Rock, TX 02/2024-Present
<ul style="list-style-type: none"><li>Enabled AI agents to access and dynamically expand restricted tax documents by architecting RAG knowledge library with semantic search and web scraping using SingleStore, FastAPI, Nomic Embed, and Crawl4AI</li><li>Deployed beta conversational agent to users by building system with RAG retrieval and MCP tool orchestration, implementing FastAPI endpoints for document management using LangGraph and Python</li><li>Reduced manual document processing by 100+ hours monthly by automating validation and file handling workflows with RESTful API services using FastAPI, Python, and S3 storage</li><li>Accelerated release cycles and deployment reliability across multiple projects by leveraging company-defined DevOps blueprints and CI/CD workflows</li></ul>	
<b>Dell</b> <i>Software Development Intern</i>	Round Rock, TX 05/2023-08/2023
<ul style="list-style-type: none"><li>Achieved 99% reduction in validation time (100+ hours to 3 minutes) by developing automated tax invoicing services with Spring Boot and Spring MVC RESTful APIs</li><li>Increased vendor file validation productivity by 40% by optimizing data storage architecture and query performance using S3 buckets and MySQL database indexing</li></ul>	
<b>SPS ARS Aerial Remote Sensing</b> <i>Web Developer/Network Operations</i>	El Paso, TX 10/2021-05/2023
<ul style="list-style-type: none"><li>Enhanced unmanned aircraft tracking system capabilities by developing full-stack features with backend API services and frontend debugging using Quasar, Python, and RESTful APIs</li><li>Achieved NIST MEP cybersecurity self-compliance by leading team audit of company certifications and software architecture against security framework requirements</li><li>Reduced system downtime by automating health monitoring for 50+ company devices through custom Python scripts and REST APIs using Webargs and Flask routing</li></ul>	

## Skills

**Technical Stack:** Python, Java, JavaScript, SQL, Bash, PHP, FastAPI, Spring Boot, Flask, ReactJS, Pydantic

**Data & Infrastructure:** SingleStore, MySQL, MongoDB, S3, Docker, Kubernetes, PCF, CI/CD, Git, JupyterHub

**AI/ML:** LangGraph, LangChain, Crawl4AI, MCP, RAG Pipelines, Vector Embeddings/Search, Model Evaluations

**Core Competencies:** Knowledge Graphs, System Design, Data Preprocessing, RESTful APIs

**Certificates:** Codepath Cybersecurity, Web Development Bootcamp, Machine Learning Specialization

## Education

<b>The University of Texas at El Paso</b> Bachelor of Science in Computer Science	El Paso, TX 08/2019-12/2023
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## Projects

### Community Resource Mapping Platform

- Architecting geospatial resource coordination platform enabling proximity-based matching between donors and community organizations (food banks, shelters) using PostGIS spatial indexing and radius-search queries
- Building full-stack POC with ReactJS/Leaflet.js frontend, FastAPI backend, and PostgreSQL/PostGIS database supporting real-time resource visualization and sub-second nearest-neighbor lookups

### Knowledge Graph POC with Neo4j

- Architecting knowledge graph system to extract and structure entity relationships from public datasets through data preprocessing pipelines using Python and Neo4j graph database
- Designed graph schema and Cypher query patterns for exploring semantic connections and entity relationships to enhance information retrieval capabilities