

Luis Saravia

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EDUCATION

Bachelor of Science, Information Systems Technology – Software Engineering Jan 2023- Dec 2025
Miami Dade College Miami, Florida

WORK EXPERIENCE

Software Development Intern May 2025 – August 2025
Illinois Tool Works - Alpine Ft. Lauderdale, Florida (Remote/Hybrid)

- **Built** an **AI-powered** chatbot using **Azure AI Foundry** and **GPT-4o-mini**, enabling semantic search across 1000+ pages of IntelliVIEW engineering software documentation
- **Implemented** multimodal **RAG (Retrieval-Augmented Generation)** using **Azure AI Search** for both text and image-based queries
- **Developed** Backend in **ASP.NET Core (C#)** with **Swagger**, **API versioning**, and **Azure AD B2C** authentication
- **Integrated** chatbot UI features into Angular frontend using **Tailwind CSS** and **Nebular UI**, enhancing usability and design consistency
- **Developed** Chatbot feedback system using **SQL Server Management System (SSMS)**, receiving user feedback relating to chatbot responses for continuous chatbot improvement.

Shift Lead April 2022– May 2025
Lokal Miami, FL

- **Supervised** high-volume kitchen operations, ensuring **consistency** and quality under fast-paced conditions
- **Trained** and **mentored** new staff, building team cohesion and improving efficiency during peak hours
- **Adapted** quickly to supply shortages and operational challenges, maintaining service flow and customer satisfaction
- **Strengthened leadership, communication, and problem-solving skills** in a high-pressure, team-driven environment

PROJECTS

- Outagent**| React, FastAPI, Typescript, Tailwind CSS
- **Collaborated** on a project to predict substation outages using weather, flood, and energy demand data
 - **Developed** the **React + TypeScript** frontend, integrating **Google Maps** and real-time charts that update every 10 seconds.
 - **Connected** the frontend to a **FastAPI** backend with multiple **AI** agents and **LightGBM** models, enabling display of live and predicted data.
 - **Delivered** a responsive dashboard that helps operators monitor risk levels and plan proactive interventions.

- Miami APA “ChalkBot” — Division-Aware Rules Assistant**| ASP.NET Core, React, OpenAI
- **Developed** a chatbot on the **OpenAI Platform** using **RAG (Retrieval-Augmented Generation)** grounded in documentation, to deliver fast, accurate rule answers.
 - **Engineered** a chat UI that posts to the API and rendered answers as safe **Markdown (GFM + sanitize)**.
 - **Orchestrated** backend operations to ensure consistent answers, consolidated responses, clear error handling, documented APIs, and secure configuration.
 - **Authored** assistant instructions to enforce scope (Miami APA rules only), require compact Markdown with section-level citations, handle ambiguities with one clarifying question, and refuse out-of-scope requests.

TECHNICAL SKILLS

Languages | Python, JavaScript, Java, TypeScript, C++, C#, SQL, Swift, HTML/CSS
Frameworks | React.js, Angular, Express.js, Node.js
Libraries | Tailwind CSS, Nebular UI, ASP.NET Core, Swashbuckle (Swagger)
Developer Tools | Git, GitHub, Visual Studio, VS Code, JetBrains, JIRA, Confluence, Azure Platform