

# Luis Saravia

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## 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, AI Platforms

## 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**, implementing **semantic search** across 1000+ IntelliVIEW pages, validating mode outputs through iterative user feedback testing.
- **Implemented** multimodal **RAG (Retrieval-Augmented Generation)** using **Azure AI Search** for text and image-based queries, conducting functionality testing to ensure **retrieval precision** and **response consistency**.
- **Developed** Backend in **ASP.NET Core (C#)** with **Swagger**, **API versioning**, and **Azure AD B2C** authentication, performing API endpoint testing and debugging to ensure secure, stable integrations.
- **Integrated** chatbot UI into Angular frontend using **Tailwind CSS** and **Nebular UI**, conducting **cross-browser UI validation** and **usability testing** to maintain 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.
- **Implemented** secure chat UI with **Markdown rendering** and **input validation** for safe responses.
- **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**.

## EDUCATION

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