

# Karla Colmenares

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## SUMMARY OF QUALIFICATIONS

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Bilingual, results-driven Computer Engineering graduate with hands-on experience in machine learning, embedded systems, and cloud computing. Adept in both software development and hardware design, with expertise in Python, C++, Java, and JavaScript. Currently applying analytical and problem-solving skills as a Pricing Specialist in logistics, while seeking opportunities to leverage technical knowledge for innovative projects. Strong background in cybersecurity and real-time 3D scanning systems.

## WORK EXPERIENCE

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### Pricing Specialist

June 2024 – Present

#### Promptus LLC- Miami, FL

- Develop and manage logistics quotes for national and international shipments, ensuring accurate pricing and effective cost analysis.
- Handle hazardous materials shipments, ensuring compliance with safety and legal regulations.
- Collaborate with teams and clients to resolve any discrepancies or issues related to pricing and shipment details.

### CSR -Customer Service Representative

May 2023 – May 2024

#### FortiFi Financial Services, Inc- Miami, FL

- Efficiently process incoming calls and manage action item requests, ensuring top-tier quality experiences for clients throughout the loan lifecycle.
- Translate calls and transcribe them as needed to facilitate communication between parties.
- Collaborate proactively with property owners, contractors, and internal partners to address inquiries and resolve issues promptly.

## EDUCATION

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Florida International University

### Bachelor of Science in Computer Engineering

Graduated April 2025

Florida International University

### Master of Science in Computer Engineering

Graduating: April 2026

## SKILLS

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- **Programming Languages:** Proficient in C, C++, HTML, CSS, Python, Java, and JavaScript.
- **Hardware Design:** Familiarity with circuit design software and hardware description languages (e.g., VHDL)
- **Web Development:** Proficient with the use of HTML, CSS, and JavaScript.
- **Cloud Computing:** Azure Blob Storage, Azure ML, Azure DevOps.
- **Embedded Systems:** Raspberry Pi, RealSense D415, Altium Designer, KiCad, Arduino.
- **Cybersecurity:** Kali Linux, Metasploit, Wireshark, Nmap, Burp Suite.
- **Machine Learning:** Experience with scikit-learn, Jupyter, basic concepts in model training and deployment.

## CERTIFICATIONS

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- Microsoft Certified: Azure AI Fundamentals
- Microsoft Office Specialist Master Certification (MOS)

## PROJECTS

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### Wireless 3D Scanning Device – Senior Design Project

#### *Lead Developer & Machine Learning Specialist*

- Designed and developed a wireless 3D scanning device using a RealSense D415 camera and Raspberry Pi 5.
- Integrated machine learning for real-time data processing and noise reduction of 3D scan data, using Azure ML for model deployment.
- Successfully created a cloud-based solution for STL file generation and 3D model cleanup.

### IOT Applied Machine Learning Project - Diabetic Retinopathy Debrecen Model

#### *Lead Developer*

- Developed a machine learning model to automate the detection of diabetic retinopathy from retinal images, aiming to improve early diagnosis and intervention.
- Technologies Used: Python, Scikit-learn, Random Forest, Support Vector Machine (SVM), OpenCV, Pandas, NumPy.
- Implemented and compared two machine learning classifiers, Random Forest and Support Vector Machine (SVM), to detect diabetic retinopathy from retinal images. The SVM classifier achieved superior performance with an accuracy of 74.86% and a precision of 84.67%, slightly outperforming the Random Forest classifier.