Karla Colmenares

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SUMMARY OF QUALIFICATIONS

-Bilingual motivated computer engineering student seeking an internship position in computer engineering to apply and enhance skills in software development, hardware design, and problem-solving. Eager to contribute to innovative projects while gaining hands-on experience in a professional setting. Proficient in C, C++, HTML, CSS, Python, Java and JavaScript.

WORK EXPERIENCE

CSR -Customer Service Representative   **May 2023 – Present**

FortiFi Financial Services, Inc- Miami, Fl

- Efficiently process incoming calls and manage action item requests, ensuring toptier quality experiences for clients throughout the loan lifecycle.
- Translate calls and transcript 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

Florida International University

Bachelor of Science in Computer Engineering   **Graduation Date: May 2025**

Florida International University

Master of Science in Computer Engineering   **Graduation Date: August 2025**

SKILLS

- **Programming Languages:** Proficient in C, C++, HTML, CSS, Python, Java and JavaScript.
- **Software Development**: Experience with version control systems (e.g., Git), IDEs (e.g., Visual Studio), and debugging tools.
- **Hardware Design**: Familiarity with circuit design software (e.g., Altium Designer, KiCad) and hardware description languages (e.g., VHDL)
- **Web Development**: Proficient with the use of HTML, CSS, and JavaScript.
- **Operating Systems**: Proficient in Windows, MAC.
- **Electronics:** Knowledge of analog and digital circuits, microcontrollers (e.g., Arduino, PIC)
- **Machine Learning**: Familiar with basic concepts and libraries (e.g., scikit-learn, jupyter)

CERTIFICATIONS

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

PROJECTS

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.

C Program Development – FIU Online Banking Program

Software Developer and Team Lead

- Developed a comprehensive online banking program for FIU, demonstrating the implementation of various banking functions using C programming.

- Technologies Used: C Programming, Data Structures, File Handling, User Interface Design.
- Delivered a working prototype of the online banking system that incorporated all fundamental C programming techniques covered in the coursework.

Cybersecurity Research Project – Exploring Penetration Testing Techniques

Cybersecurity Researcher and Penetration Tester

- Conducted a comprehensive study on penetration testing techniques to identify and mitigate vulnerabilities in software systems, providing practical guidance for security improvements.
- Technologies Used: Kali Linux, Metasploit, Wireshark, Nmap, Burp Suite, Python, Bash Scripting.
- Gained hands-on experience with a variety of penetration testing tools and techniques, enhancing practical knowledge in cybersecurity.