

Oscar Sanchez-Huezca

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Results-driven **Software Engineer, Data Scientist, & Consultant** skilled in developing full-stack applications and embedded systems, with hands-on experience in data analytics, workflow optimization, and cross-functional project leadership. Combines technical proficiency in multiple programming languages with strong analytical problem-solving to deliver scalable, user-focused software solutions.

Core Competencies

- Full-Stack Development • Embedded Systems • System Architecture & Design • Data Analysis & Visualization
 - Machine Learning • Statistical Modeling • End-to-End Solution Delivery • Project Management
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Relevant Projects

- Designed and implemented an academic planning application that guides students toward feasible alternative majors based on degree progress. (Vercel, Python, JavaScript, CSS)
 - Trained and deployed an end-to-end fine-tuned chatbot model, iteratively improving response clarity and reasoning for general knowledge inquiries. (Python, Hugging Face, Vercel, Flask, JavaScript, CSS)
 - Led full-stack development of a Premier League analytics application delivering match data, win probabilities, and historical stats through an interactive interface and intuitive database design. (Vercel, Python, Flask, Scikit-learn/Pytorch, JavaScript, CSS)
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Relevant Experience

IT Services & Software Solutions Specialist

City North Physical Therapy – Chicago, IL

Jun 2025 – Present

- Designed and maintained a secure patient data management system, streamlining administrative processes and reducing team workload. (Excel, Visual Basic)
- Conducted data analysis on clinic appointment records to identify no-show trends and recommend solutions to decrease missed visits. (Python)
- Researched and assessed digital and analog workflow solutions to improve administrative efficiency and enhance patient interactions.
- Optimized website design and user experience to increase engagement and accessibility (JavaScript, CSS, HTML).

Software Engineering Intern

BCS Automotive Interface Solutions – Farmington Hills, MI

Jun – Aug 2023 & Jun – Aug 2024

- Served as Software Lead for Haptic Feedback Device Testing Project, coordinating with international teams and global engineering managers to initiate project development. (C++, C#, Python)
 - Partnered with Testing and Laboratory teams to design and implement a SQL database to organize and streamline testing center operations. (SQL, XAMPP)
 - Engineered end-to-end software solutions spanning full-stack web applications and resource-constrained embedded systems, from UI design to hardware-level firmware. (C++, C#, Python)
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Education & Certifications

Software Engineering, Data Science - Bachelor of Science

Loyola University Chicago – Chicago, IL (Java, Linux, Docker)

Aug 2022 – May 2026

Google Data Analytics Professional Certificate

Google – *Jun 2025*

Certified Program in Football Data Analytics

Escuela Universitaria Real Madrid, Universidad Europea de Madrid – *Jun – Aug 2024* (Tableau, PowerBI)