

Felipe Cordero



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Summary of Qualifications

- Experienced engineer with 14+ years in structural engineering and software development.
- Specialized in driving innovation and process optimization within the AEC industry
- Proven leader in R&D, focusing on automation and transformative solutions.
- Advancing expertise in AI, machine learning, data engineering, and predictive modeling.
- Looking for roles in machine learning, software, or data engineering to create impactful solutions.

Education

Collège LaSalle Montréal , AEC: Artificial Intelligence and Machine Learning	Sept 2023 – Present
University of Chile , Professional Degree of Civil Engineering	2004 – 2011

Professional Experience

Senior Software Developer , ObraLink – Remotely (Chile)	Aug. 2023 – Present
<ul style="list-style-type: none">• Lead the development of autonomous solutions for real-time structural analysis.• Spearheaded the development of machine learning models for accurate concrete demand estimation.• Authored reports for innovation projects seeking investments exceeding \$500K USD.	
Technical Assistant Manager , Tensacon – Santiago, Chile	Mar. 2022 – July 2023
<ul style="list-style-type: none">• Lead the BIM team to enhance quality and productivity, delivering multiple Fast Track projects on time.• Designed solutions for major prefabricated projects, including CODELCO facilities and Pan American Games venues.	
Structural Engineering Team Lead and R&D Coordinator in Structural and Seismic Engineering , Sirve Engineering – Santiago, Chile	Mar. 2019 – Mar. 2022
<ul style="list-style-type: none">• Directed R&D for software tools, reducing initial engineering and structure sizing time by 75%• Oversaw the development of multiple high-rise residential and commercial complexes (~20,000 m² each)	

Skills & Knowledge

Technical Skills: Python, Scikit-Learn, TensorFlow, PyTorch, NumPy, Pandas, Linux, Data Analysis, SQL (SQL Server, MySQL, PostgreSQL), HTML, CSS, JavaScript, VSCode, Jupyter Notebook, Qt, Data Visualization (Plotly, Matplotlib), Tree.js, ReportLab, OpenSees, CAD, SAP2000, Etabs, Microsoft Office Suite.

Personal Skills: Project management, data processing, leadership, time management, decision making, strategic planning, problem-solving, workflow optimization, effective communication, analytical thinking, adaptability, collaboration, attention to details, initiative.

Languages: English (Full Professional), French (Intermediate), Spanish (Native).

Interests: Playing tennis, swimming, playing drums, cooking, taking pictures, traveling, reading.

Volunteering

Collège LaSalle Montréal , Welcome team member	Aug. 2024 - Present
Welcoming new students and developing software for the Student Services Team.	
University of Chile , Post-Earthquake Relief	2010
Structural assessments post-earthquake, Chile.	
FECH , Poverty Alleviation	2005
Built honey collection center for local producers, Mialqui, Chile.	