Felipe Cordero

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Summary of Qualifications

- Experienced engineer with 14+ years in structural engineering and software development.
- Currently an AI intern at Fireraven, developing low-code compliance tools for LLM assistants and agents.
- 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.
- Open to roles in structural engineering, machine learning, software development, and data engineering.

Education

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

Professional Experience

AI Intern, Fireraven – Montréal, Canada — May 2025 – Present

- Design and development of new security and compliance features for LLM-based agents.
- Debugging, troubleshooting, and optimizing code to ensure platform reliability.
- Integrating and managing SQL databases (e.g., PostgreSQL) while leveraging cloud tools.
- Contributing to the real-time deployment and monitoring to ensure regulatory compliance.

Senior Software Developer, ObraLink – Remotely (Chile) — Aug. 2023 – May 2025

- 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

- 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

- 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 – Jan. 2025
Welcomed new students and developed software solutions to support the Student Services Team.

University of Chile, Structural Assessment Volunteer, Post-Earthquake Relief — 2010
Performed structural assessments following the 2010 earthquake in Chile.

FECH, Poverty Alleviation — 2005
Collaborated with a student team to build a honey collection center for local producers in Mialqui, Chile.