

Felipe Cordero

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Summary of Qualifications

- Experienced engineer with 14+ years in structural engineering and software development, currently expanding into AI/ML.
- AI intern at Fireraven, developing compliance tools for LLM assistants and agents.
- Proven track record in R&D, process optimization, and automation within the AEC industry.
- Strong background in both technical leadership and hands-on development of innovative solutions.
- Seeking roles in AI/ML, software development, or structural engineering that leverage my cross-domain experience.

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 and ML models for concrete demand estimation.
 - Authored innovation project reports seeking investments exceeding \$500K USD.
- Technical Assistant Manager, Tensacon – Santiago, Chile

Mar. 2022 – July 2023

 - Led 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%
 - Managed multiple high-rise residential and commercial complexes (~20,000 m² each)

Education

- Collège LaSalle Montréal, AEC: Artificial Intelligence and Machine Learning

Sept 2023 – Present
- University of Chile, Bachelor’s Degree in Civil Engineering

2004 – 2011

Achievements

- Academic Excellence Scholarship, Collège LaSalle Montréal – Sponsored by Air Canada

2025
- Outstanding Student, University of Chile – School of Engineering and Sciences

2009

Skills & Knowledge

- Technical Skills:** Python, Scikit-Learn, TensorFlow, PyTorch, NumPy, Pandas, SQL (PostgreSQL, MySQL), Data Analysis, Linux, Web Development (HTML, CSS, JavaScript, Streamlit), Development Tools (VSCode, Jupyter, Qt), Data Visualization (Plotly, Matplotlib), Tree.js, ReportLab, Structural Engineering Software (OpenSees, SAP2000, Etabs, CAD), Microsoft Office.
- Personal Skills:** Leadership, Project Management, Strategic Planning, Problem Solving, Workflow Optimization, Effective Communication, Analytical Thinking, Adaptability, Collaboration, Attention to Detail.
- 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

Developed Scheduler Student Services, a web application to manage student volunteers and welcome teams for new students.
- University of Chile, Structural Assessment Volunteer, Post-Earthquake Relief

2010

Performed structural assessments following the 2010 earthquake in Chile.
- University of Chile Student Federation (FECH)

2005

Collaborated with student volunteers to build a honey collection center for local producers in Mialqui, Chile.