Martín Alexis Illanes Vindzanova

Civil Engineering in Industries, Diploma in Information Technology · Master in Public Policy (PUC Chile)

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Profile. Civil Industrial Engineer and Master in Public Policy, specialized in data science and technology-project management. I combine quantitative analysis for the public sector (Espacio Público, Foresight, Senate) with running my own infrastructure (5 Linux servers, 50+ services, PostgreSQL, CI/CD) and full-stack development.

EXPERIENCE

Compañía Chilena de Inteligencia de Datos (COCHID)
Data Product Development *March 2026 – Present*
- Build and operate civic data-intelligence platforms (legislation, Congress, elections, and public data), published at cochid.cl.

Foresight
Data & AI Solutions Consultant *2026 – Present*
- On the Ballerina project: structured data flows and designed an AI-agent-based solution to generate and evaluate scenarios, within a planning and evaluation consultancy.

Compañía de Innovación de Santiago SpA (CIS)
Co-founder: Product Development & Infrastructure *March 2026 – Present*
- I design, build and operate technology and data products (web apps and sites) on self-hosted infrastructure, covering the full cycle: architecture, development, deployment and operations. Site: innovacionsantiago.cl.

Espacio Público
Researcher and Data Analyst *December 2024 – Present*
- Lead researcher of the study "Coverage and financial protection for medicines in Chile" (Espacio Público with support from the Chilean Chamber of Pharmaceutical Innovation, 2025-2026): spending, financing, household burden, high-cost drugs and policy options; published at medicamentos.cochid.cl.
- Research for the IDB (Inter-American Development Bank) on the efficiency and quality of public security spending.
- Analysis of labor informality and digitalization for the economic-growth agenda, drafting bulletins and systematizing 2,300+ public-policy proposals.

illanes00.cl: Self-hosted production infrastructure & platform
Linux Infrastructure Administrator & Full-Stack Engineer *2020 – Present*
- Since 2020, I have run a personal fleet of 5 Linux servers (VPS) with 50+ production services, 100+ domains (Caddy), and 14 PostgreSQL databases.
- Designed and operate a custom control plane (illanes00-server, 69 tools): deployments, DNS, secrets, SSO (Authentik), and monitoring (Prometheus/Grafana), with validated failure recovery.

Senate of the Republic of Chile
External Advisor *May 2025*
- Research and technical support for legislative work: preparation of bills and amendments, drafting of reports and briefs, and gathering of background material.

Pontifical Catholic University of Chile
Teaching Assistant *2020 – 2025*
- Distinguished teaching assistant (16 TA positions in total): in Engineering, Data Structures and Algorithms (IIC2133, 2022–2024) and Integration Workshop (IIC3103, 2024–2025); in Government, Economics for Public Policy (GOB1003, 2023) and Innovation Management in the State (ADP202I, Prof. Pertuzé, 2025).

Municipalidad de Puente Alto
Process Analyst (UC Engineering project) *2023*
- Assessment and analysis of the procurement procedures of the Municipalidad de Puente Alto as part of the Process Models course.
- Designed process-improvement strategies presented to municipal officials for implementation.

Pontifical Catholic University of Chile

Qualitative Researcher - Ministry of Science, Technology, Knowledge, and Innovation *2020*

- Collaborated with the Ministry to explore regional innovation dialogues using anthropological design techniques within the Anthro-Design course.
- Ethnographic research to identify areas for more effective collaboration between government and regional stakeholders.

EDUCATION

Pontifical Catholic University of Chile

Civil Engineering in Industries: Diploma in Information Technology Engineering *2019 – 2025*

- Degree awarded with distinction (2026); ranked 5th of 61 in the 2026 graduating class (top 8%).
- Diploma in Information Technology Engineering: IT Project Management, Software Engineering, Databases, Computer Architecture, and Information Systems.
- Complemented by a Bachelor's in Engineering Sciences (Major in Design & Innovation, Minor in Industrial) and an Academic Certificate in Public Policy. Full detail at cv.illanes00.cl.

Master's in Public Policy *2024 – 2025*

PROJECTS & INITIATIVES

Selected projects (data, software and engineering · open source)

- Multilingual CV engine (this document): generates the CV in 4 languages from a data model, using LuaLaTeX and Next.js.
- @VotosCamaraCL: visualizes every vote of the Chilean Chamber of Deputies; used by media such as Canal 13 and La Tercera.
- NLP analysis of presidential speeches.
- Public-data visualizations on childhood (SENAME / Mejor Niñez) and a civic mini-game about Chilean politicians.
- Engineering prototypes with social impact: Unillave (a universal key for firefighter hydrants) and an Arduino-monitored irrigation system.
- Full portfolio at cv.illanes00.cl.

ADDITIONAL INFORMATION

Project & Process Management: IT project management, process modeling and improvement (BPMN, procedure mapping), project evaluation, and agile methodologies.

Data & Analytics: Advanced SQL and web scraping; visualization and dashboards (Power BI); pandas and tidyverse/R; report automation (Quarto); ML and network analysis (scikit-learn); GIS (QGIS); public data sources (CASEN, CENSO, OECD, etc.).

Infrastructure & DevOps: Linux, systemd, Caddy (reverse proxy + TLS), Docker, Git & GitHub Actions (CI/CD), Cloudflare (DNS), Authentik (SSO), Prometheus & Grafana (observability), secrets management, multi-VPS fleet administration.

Programming Languages: Python, TypeScript/JavaScript, R, SQL, Bash, C/C++, PHP, Lua.

Databases: PostgreSQL, SQLite, Redis, Alembic (migrations), pgvector (vector search).

AI / LLM / Agents: Claude/OpenAI SDKs, agent orchestration and MCP (Model Context Protocol), RAG and vector search (pgvector), NLP and embeddings.

Certifications: Amateur Radio License (SUBTEL, 2026); Driver's license.

Languages: Spanish and Latvian native, English (CEFR C1, Cambridge University Press & Assessment English), French (CEFR A2, self-assessed)