

# Matías Andrade Valenzuela

Computer Science Engineer | Backend · Cloud · Security

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## Profile

Backend and infrastructure for production-ready products: API design, PostgreSQL/PostGIS data modeling, and cloud deployments, with a focus on testing, documentation, and operations.

## Work experience

- ParksTech**, Full-stack Developer (Co-founder) Apr 2025 – present
- Build and maintain web (Astro/TS, Cloudflare) and mobile (Flutter/Dart) products integrated with a PostGIS backend and offline maps.
  - Designed operational workflows and basic usage telemetry to improve reliability, support, and product adoption.
- Consistorial Administraciones**, IT Infrastructure Analyst July 2024 – present
- Built an internal portal (Astro/Next.js) on Cloudflare; contributed to deployment and access management.
  - Managed Google Workspace and email security (DNS, SPF/DKIM/DMARC); standardized checklists and support documentation.
- KIS (Keep It Simple LATAM)**, Data Analyst May 2025 – Dec 2025
- Modeled and integrated data in Microsoft Fabric for analytics consumption.
  - Delivered Power BI KPIs (DAX) for retail/marketing teams; standardized heterogeneous sources for traceable reporting.
- School of Computer Engineering (PUCV)**, Research Assistant Dec 2024 – Feb 2025
- Reviewed 2020–2024 combinatorial optimization and documented reproducible benchmarks and comparisons.
- TryAll**, Web Developer Aug 2023 – Dec 2023
- Built a WordPress e-commerce site on a VPS (Apache2): basic hardening, backups, documentation, and performance tuning.

## Projects

- Rüpü (ParksTech)** 2025
- Offline-first platform for park operations and safety (Flutter · PostGIS · MapLibre · PMTiles/MBTiles).
  - Milestone: 3rd place, Santander Talento Innovador 2025 (48 participants) · Website: parkstech.cl
- FinLedger API** 2025
- REST API with JWT authentication and versioned migrations (FastAPI · PostgreSQL · SQLAlchemy/Alembic · Docker).
  - Repository: [github.com/mrav7/abaqus-finledger-api](https://github.com/mrav7/abaqus-finledger-api)
- Andes Airlines (API REST Challenge)** 2025
- REST API challenge with validations and automated tests (Fastify · TypeScript · MySQL · Jest/Supertest).
  - Repository: [github.com/mrav7/bsale-airline-api](https://github.com/mrav7/bsale-airline-api)
- Consistorial Portal** 2025
- Internal portal for a property management company (Next.js · React · Tailwind · Cloudflare).
  - Repository: private (demo upon request)

## Education

- Pontificia Universidad Católica de Valparaíso (PUCV)**, Computer Science Engineering (in progress) Mar 2019 – Dec 2026
- AWS Educate**, Cloud Foundations Jan 2025 – present

## Technologies

**Backend/APIs:** Django/FastAPI · Fastify (Node.js/TS) · SQLAlchemy/Alembic · JWT · Tests (Jest/Supertest)  
**Databases:** PostgreSQL/PostGIS · MySQL · SQL Server  
**Cloud/Infra:** Cloudflare · Render · Docker · Linux · Git  
**Security/Networking:** DNS, SPF/DKIM/DMARC · OWASP · ISO 27001 · NIST  
**Frontend/Mobile:** Astro · React/Angular · Next.js · TS · Flutter  
**Data/BI:** Power BI · Microsoft Fabric · DAX

## Languages and management

**Languages:** Spanish (Native) · English (C1)  
**Work style:** Scrum · Kanban · Notion · Asana · Azure DevOps

## Skills

Problem solving · Software quality · Technical documentation · Teamwork