JOSÉ TOMÁS ANABALÓN

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PROFESSIONAL PROFILE

Computer Science Engineer specialized in machine learning and data pipelines, with experience implementing generative models (GANs, Diffusion, Transformers) and automating ETL workflows. Thesis work processing 35k images and training 9 model variants with PyTorch/TensorFlow. Practical experience in Snowflake, process automation with Python, orchestration with n8n, and web scraping. Proven ability in technical consulting: requirements gathering, client interaction, and translating business needs into data solutions. Seeking roles where I can apply ML/AI to solve problems with data.

PROFESSIONAL EXPERIENCE

Internship - Automation & Data | KrConsulting, Santiago, Chile | *Jan – Mar 2025*
- Developed automation and AI solutions for IBM corporate clients (Watson X partner), acting as technical consultant
- Designed complete LLM solution architecture to automate legal contract review, identifying breached clauses, renewal dates, and contractual risks in massive documentation
- Implemented Python scripts for automated data extraction via REST APIs and web scraping (BeautifulSoup), processing multiple sources
- Designed and deployed ETL pipelines to centralize data in Snowflake, reducing report generation time from 4h to 15min weekly (93% improvement)
- *Tech: Python, Snowflake, REST APIs, BeautifulSoup, Pandas, IBM Watson X*

Developer - Automation | MakiMotion, Santiago, Chile | *Aug – Sep 2025*
- Developed web application with workflow automation for patient management, in production use by physical therapists
- Gathered requirements through iterations with client, refining features and prioritizing based on real business needs
- Implemented automatic appointment assignment, reminders, and patient tracking dashboard, reducing admin time ~60%
- Integrated PostgreSQL database with cloud deployment on Render and basic CI with GitHub Actions | Tech: Django, PostgreSQL, Render

Developer - Automation | C&V Paisajismo, Santiago, Chile | *Dec 2021 – Apr 2022*
- Developed web solution to automate task assignment and manage 10+ gardeners, working directly with business owner
- Gathered client requirements, iterating on features until achieving solution that eliminated manual processes
- Automated recurring weekly/monthly tasks, integrated image storage with AWS S3, reducing management ~70%
- Centralized operational information and automated billing report generation | Tech: Ruby on Rails, PostgreSQL, AWS S3

Intern | Tinet, Santiago, Chile | *Dec 2019 – Feb 2020*
- Developed web app for automated agile team evaluation with automatic performance metrics calculation
- *Tech: Angular, Spring Boot, PostgreSQL*

FEATURED PROJECTS

Thesis: Comparison of Generative Models Applied to Fashion Design | *2024–2025*
- Researched and compared 9 variants of generative models (GANs, Diffusion Models, Transformers) for dress generation from sketches
- Models: GAN variants (Pix2Pix, CycleGAN), Diffusion (DDIM, ControlNet with Stable Diffusion, BBDM), Transformers with VQ-GAN
- Developed complete pipeline: web scraping → curation of 35k images → automated sketch generation → 55k training pairs
- Implemented automated evaluation system with FID, SSIM, and LPIPS metrics for objective model comparison
- Results: Diffusion Models (DDIM, ControlNet) achieved best metrics, followed closely by VQ-GAN Transformers. GANs competitive
- *Tech: PyTorch, TensorFlow, Python, NumPy, Pandas, BeautifulSoup, CUDA, data augmentation, parallel processing*

LinkedIn Job Application Automator | *2025*
- Developed complete LinkedIn application automation bot, reducing time from 10min to <30sec (95% improvement), processing 20+/day
- Implemented end-to-end workflow orchestrated with n8n: time trigger → Google Sheets verification → scraping (Selenium) → automatic application

- Developed keyword filtering system, automatic form completion, and status tracking with Telegram notifications
- *Status: In production, 100+ successful applications | Tech: n8n, Python, Selenium, Google Sheets API, Telegram API, Docker*

EDUCATION

B.S. in Computer Science Engineering | Major in Applied Mathematical Modeling

Universidad de los Andes, Santiago, Chile | Mar 2016 – May 2025

Academic Exchange | FHWien der WKW, Vienna, Austria | Feb – Aug 2019

TECHNICAL SKILLS

Machine Learning: PyTorch, TensorFlow, GANs, Diffusion Models, Transformers, Scikit-learn, model evaluation (FID, SSIM, LPIPS), data augmentation

Data Engineering: Snowflake, ETL pipelines, Pandas, NumPy, advanced SQL (PostgreSQL, MySQL), schema design, data preprocessing

Automation: n8n (orchestration), Selenium, BeautifulSoup, web scraping, API integration, task automation, workflow design

Languages: Python (5 years - expert), Ruby (3 years), Bash/Shell scripting, Java, C/C++

Cloud & DevOps: AWS (S3, Lambda, EMR), Docker, Git/GitHub, CI/CD (GitHub Actions), parallel processing, CUDA

Backend: Django, Ruby on Rails, Spring Boot, REST APIs

LANGUAGES

Spanish: Native | **English:** C1 Advanced (TOEFL ITP, Cambridge FCE) | **German:** A1 Basic