Víctor Navarro Aránguiz

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in vnavarroaranguiz | ⬙ Vokturz

Professional Summary

AI Engineer with a Master's degree, specializing in the end-to-end development of production AI systems. Expertise ranges from designing complex algorithms to architecting full-stack, AI-powered applications. Proficient in Python, TypeScript, and Rust with hands-on experience deploying to both cloud (AWS) and on-premise (Docker) environments.

Experience

- **Judini Inc. (CodeGPT) [⬕]**   *Dic 2023 - Jul 2025*
  AI Engineer   Remote
  ◦ Designed and implemented a knowledge-graph algorithm for codebase understanding.
  ◦ Managed end-to-end deployment of production AI models for both cloud (AWS, GCloud) and on-premise (Docker) environments.

- **Data Science Institute, Universidad del Desarrollo [⬕]**   *Apr 2020 - Nov 2023*
  Data Scientist   Santiago, Chile
  ◦ Developed machine learning models to analyze user behavior, including a recommendation system for Derco-Chile and Customer Lifetime Value models using Bayesian inference

- **National Astronomical Observatory, University of Chile**   *Feb 2020 - Dic 2022*
  Research Assistant on project "Blazar variability studies in preparation for CTA"   Santiago, Chile
  ◦ Developed an algorithm using Approximate Bayesian Computation to characterize Blazar variability, processing astronomical data for the Cherenkov Telescope Array project

- **FONDECYT 11180913**   *Jul 2019 - Jul 2020*
  Developer on project "Inference of commuting mode using mobile phone network data"   Santiago, Chile
  ◦ Developed Topic-Supervised Non-Negative Matrix Factorization algorithm using sparse matrices ⬙

Personal Projects

- **Loyca.ai: A privacy-focused, local-first AI assistant built with Rust and Tauri.**   *Oct 2025*
  Tauri, Rust, Svelte, SQLite   [⬙]
  ◦ Architected a local-first AI assistant that analyses screen context via a Vision Language Model and employs a contextual bandit to decide when to offer assistance adaptively.

- **Transformers.js Playground**   *Sep 2025*
  React, Transformers.js   [⬕]
  ◦ Built and deployed an interactive web playground on Hugging Face Spaces to showcase real-time, on-device NLP model testing with the Transformers.js library.

- **Personal Website: A portfolio and blog with in-browser Python execution.**   *Aug 2025*
  SvelteKit, Python   [⬙]
  ◦ Developed a portfolio blog with support for Markdown and Jupyter Notebooks, featuring live in-browser Python code execution via Pyodide for interactive demonstrations.

Education

- **University of Chile, Faculty of Physical and Mathematical Sciences**   *2023*
  Master in Astronomy   Santiago, Chile
  ◦ Thesis "*Characterization of the variability of blazars in the radio band*"

- **University of Chile, Faculty of Physical and Mathematical Sciences**   *2021*
  Bachelor of Sciences in Engineering specializing in Computer Science   Santiago, Chile
- **University of Chile, Faculty of Physical and Mathematical Sciences**   *2018*
  Bachelor of Sciences in Astronomy   Santiago, Chile

Skills

- **Programming Languages:** Python, Typescript, Javascript, bash, SQL, Rust, C#, C, R
- **Web Technologies:** Next.js (React), SvelteKit (Svelte)
- **Data Science & Machine Learning:** Google BigQuery, Spark, PyTorch, Candle
- **Cloud Technologies:** AWS, Supabase, Google Cloud, Azure
- **DevOps & Version Control:** GitHub, Docker

Additional Information

- **Languages:** Spanish, English
- **Teaching & Mentorship:** Instructed "Python for Data Science" for Master's students and professionals
- **Publications:** Co-author on 4 peer-reviewed publications in journals. A full list is available in Google Scholar