Víctor Navarro Aránguiz

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in vnavarroaranguiz | ⬤ Vokturz

Dublin, Ireland

Objective

Highly motivated Software Engineer seeking an opportunity to utilize my broad technical experience in software development and system design. I am enthusiastic about contributing to innovative development efforts, focusing on building robust and scalable applications and solving practical challenges. I am also eager to continuously learn and grow within a dynamic technical environment.

Experience

- **Judini Inc. (CodeGPT) [⬤]** *Dic 2023 - Jul 2025*
  AI Engineer Remote
  - Designed and implemented knowledge-graph algorithm for codebase understanding
  - Deployed and managed production AI models on cloud providers
  - Designed on-premise Docker solution for platform deployment
  - Managed core AWS infrastructure via serverless compute
  - Maintained backend systems

- **Data Science Institute, Universidad del Desarrollo [⬤]** *Apr 2020 - Nov 2023*
  Data Scientist Santiago, Chile
  - Implemented algorithms to analyze human behavior from mobile XDR data
  - Developed a recommendation system for Derco-Chile
  - Implemented 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
  - Assisted in acquiring and processing astronomical data for the Cherenkov Telescope Array
  - Developed algorithm for characterizing Blazar variability using Approximate Bayesian Computation

- **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 ⬤

- **National Astronomical Observatory, University of Chile** *Jan 2017 - Jul 2017*
  Research Assistant on project "An inner warp in the DoAr 44 T Tauri transition disk" Santiago, Chile
  - Collected astronomical data for the DoAr 44 T Tauri object
  - Developed a draft radiative transfer model for DoAr 44 T Tauri object

- **Correos de Chile** *Jan 2018 - Feb 2018*
  Web Developer Santiago, Chile
  - Resolved bugs in .NET based platform
  - Created UML diagrams for core platform components

Teaching Experience

- **Universidad del Desarrollo** *Jun 2024 - Jul 2024*
  Python for Data Science course for Master students Santiago, Chile
  - Designed and taught introductory programming course for Master in Data Science students

- **Universidad del Desarrollo** *Mar 2024 - Jul 2024*
  Introduction to Programming for undergraduate students Santiago, Chile
  - Designed and taught Introduction to Programming for first-year students

- **Central Bank of Chile** *Oct 2023*
  Programming in Python course Santiago, Chile
  - Designed and taught Python programming focused on data analytics

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

Publications

[1] E. Elejalde, L. Ferres, **V. Navarro**, L. Bravo and E. Zagheni. (2024). **The social stratification of internal migration and daily mobility during the COVID-19 pandemic**. *Scientific Reports*, 14(1):12140. DOI: 10.1038/s41598-024-63098-5

[2] L. Pappalardo, G. Cornacchia, **V. Navarro**, L. Bravo and L. Ferres. (2023). **A dataset to assess mobility changes in Chile following local quarantines**. *Scientific Data*, 10:6. DOI: 10.1038/s41597-022-01893-3

[3] P. Goldoni, S. Pita, C. Boisson, W. Max-Moerbeck, E. Kasai, D. A. Williams, F. D'Ammando, **V. Navarro-Aranguiz**, M. Backes, U. Barres de Almeida, J. Becerra-Gonzalez, G. Cotter, O. Hervet, J.-P. Lenain, E. Lindfors, H. Sol and S. Wagner. (2021). **Optical spectroscopy of Blazars for the Cherenkov Telescope Array**. *Astronomy Astrophysics (AA)*, 650:A106. DOI: 10.1051/0004-6361/202040134

[4] S. Casassus, H. Avenhaus, S. Perez, **V. Navarro**, M. Carcamo, S. Marino, L. Cieza, S. P. Quanz, F. Alarcon, A. Zurlo, A. Osses, F. R. Rannou, P. E. Roman and M. Barraza. (2018). **An inner warp in the DoAr 44 T Tauri transition disk**. *Monthly Notices of the Royal Astronomical Society (MNRAS)*, 477(4):5104-5114. DOI: 10.1093/mnras/sty894

Skills

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

Additional Information

Languages: Spanish, English
Interests: Cooking, Hiking, Fitness, Anime, Music