Bruno Rodríguez

Software engineer focused on quality-driven development, test automation, and end-to-end system delivery since 2022
Brings academic excellence (*summa cum laude*) and a collaborative approach to solving complex business challenges

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Experience

Fintual (YC S18, Sequoia Capital) *Palo Alto, CA, USA*

Software Engineer - Recurrence & Onboarding Team | TypeScript · React Native · Ruby on Rails · GraphQL   04/2024 - Present

- Refactored legacy mobile codebase and migrated to a strongly-typed environment, improving code quality and **reducing bug reports by 10%**
- Launched an automated tax information verification system, reducing manual processing **time by 80%** to 10 minutes daily
- Reengineered onboarding flow through data-driven refactoring, resulting in **6% higher conversion rates** across 150k user base

Cardda (YC W22) *Santiago, Chile*

Software Engineer | Svelte · Ruby on Rails · Firebase   01/2024 - 03/2024

- Delivered **key features** for a corporate credit card platform, utilizing Svelte, Ruby on Rails, and Firebase
- Engineered an internal accounting system, reducing manual data entry and reconciliation time from **6 to 2 hours/week**

Millennium Institute for Foundational Research on Data *Santiago, Chile*

Master's Thesis | Scala · Apache Spark & MLlib · Docker   03/2023 - 03/2024

- Formulated a **distributed privacy-preserving** framework using Apache Spark, successfully processing ~1B records
- Implemented innovative clustering algorithms achieving **21% higher precision** while maintaining privacy guarantees
- Pioneered novel privacy-aware k-d trees for spatial data analysis, achieving **30% faster build time** for high-dimensional datasets

PSINet - R&D *Santiago, Chile*

Software Engineer & Team Lead | React · Django · PostgreSQL   07/2022 - 08/2023

- Developed a React Native app to connect offline medical devices to a central platform, **reducing sync time from 10 to 1 minute** per patient
- Architected scalable medical platform processing **40K+ records monthly**, achieving 53% faster revision through ML models
- **Led team of 8 developers** across 3 projects, implementing ticket-based async collaboration system, managing hiring/onboarding processes

Maipu City Hall *Maipu, Chile*

Frontend Developer - Capstone Project   03/2023 - 07/2023

- Designed and built full-stack fleet management system with React, enabling **real-time tracking** and management of over 100 vehicles
- Orchestrated vehicle assignment algorithms and monitoring interfaces to **reduce idle time** by 29%

Premialab *Paris, France*

Data Science Intern | Python · scikit-learn · PyTorch   07/2021 - 12/2021

- Constructed financial analysis pipeline utilizing BERT embeddings to process **50K+ stock descriptions**, improving portfolio recommendation
- Created ML trading models using **decision trees & neural networks** to analyze 10+ technical indicators for momentum strategies

University of Chile *Santiago, Chile*

Teaching Assistant   09/2018 - 12/2022

- Design and Programming Methodologies (2022-2) · Algorithms and Data Structures (2018-2, 2019-1) · Newtonian Physics (2018-1)
- Led classes of 100+ students across multiple courses, achieving **95% positive student feedback** and receiving faculty recommendations

Skills

Programming	**Expert (4+ years):** Python, TypeScript · **Proficient (2-4 years):** Scala, Ruby · **Familiar (1-2 years):** C++, Java, Go
Technologies	**Infra:** AWS, GCP, Docker, Kubernetes, GitHub Actions · **Data:** Apache Spark, PostgreSQL, MongoDB, SQL, GraphQL **Web & Mobile:** React, React Native, Rails, Django, Svelte
Languages	**Spanish** native, **French** and **English** fluency (C1)

Education

University of Chile *Santiago, Chile*

BS + MEng in Computer Science - **GPA**: 3.94 / 4.0 - **Rank**: 10 / 116 - *Summa Cum Laude*   03/2017 - 12/2019 + 07/2022 - 12/2023

Software Engineering, Databases, Networks, Operating Systems, Discrete Mathematics

École CentraleSupélec - Paris Saclay University *Paris, France*

MSc in General Engineering | *Computer Science Track*   03/2020 - 06/2021

Distributed Computing, Machine Learning, Advanced Statistics, Optimization, Cryptography

Honors & Awards

2015–2016	**National Olympiads**: *Math:* Silver, Bronze. *Math Teams:* [Gold], Gold. *Physics:* [Silver medal]	*Santiago, Chile*
2016	**Academic Excellence**: *Top 1% nationally* in university admission test, highest math score regionally	*Vallenar, Chile*