

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

✉ bruno.rodriguez.sep@gmail.com | 🏠 brunorodriguez.dev | in [bruno-rodriguez-sepulveda](#) | H-1B1 Visa · [no lottery required](#)

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