

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)	<i>Palo Alto, CA, USA</i>
Software Engineer - Recurrence & Onboarding Team TypeScript · React Native · Ruby on Rails · GraphQL	04/2024 - Present
<ul style="list-style-type: none">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 dailyReengineered onboarding flow through data-driven refactoring, resulting in 6% higher conversion rates across 150k user base	
Cardda (YC W22)	<i>Santiago, Chile</i>
Software Engineer Svelte · Ruby on Rails · Firebase	01/2024 - 03/2024
<ul style="list-style-type: none">Delivered key features for a corporate credit card platform, utilizing Svelte, Ruby on Rails, and FirebaseEngineered an internal accounting system, reducing manual data entry and reconciliation time from 6 to 2 hours/week	
Millennium Institute for Foundational Research on Data	<i>Santiago, Chile</i>
Master's Thesis Scala · Apache Spark & MLlib · Docker	03/2023 - 03/2024
<ul style="list-style-type: none">Formulated a distributed privacy-preserving framework using Apache Spark, successfully processing ~1B recordsImplemented innovative clustering algorithms achieving 21% higher precision while maintaining privacy guaranteesPioneered novel privacy-aware k-d trees for spatial data analysis, achieving 30% faster build time for high-dimensional datasets	
PSINet - R&D	<i>Santiago, Chile</i>
Software Engineer & Team Lead React · Django · PostgreSQL	07/2022 - 08/2023
<ul style="list-style-type: none">Developed a React Native app to connect offline medical devices to a central platform, reducing sync time from 10 to 1 minute per patientArchitected scalable medical platform processing 40K+ records monthly, achieving 53% faster revision through ML modelsLed team of 8 developers across 3 projects, implementing ticket-based async collaboration system, managing hiring/onboarding processes	
Maipu City Hall	<i>Maipu, Chile</i>
Frontend Developer - Capstone Project	03/2023 - 07/2023
<ul style="list-style-type: none">Designed and built full-stack fleet management system with React, enabling real-time tracking and management of over 100 vehiclesOrchestrated vehicle assignment algorithms and monitoring interfaces to reduce idle time by 29%	
Premialab	<i>Paris, France</i>
Data Science Intern Python · scikit-learn · PyTorch	07/2021 - 12/2021
<ul style="list-style-type: none">Constructed financial analysis pipeline utilizing BERT embeddings to process 50K+ stock descriptions, improving portfolio recommendationCreated ML trading models using decision trees & neural networks to analyze 10+ technical indicators for momentum strategies	
University of Chile	<i>Santiago, Chile</i>
Teaching Assistant	09/2018 - 12/2022
<ul style="list-style-type: none">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	<i>Santiago, Chile</i>
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	<i>Paris, France</i>
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	<i>Santiago, Chile</i>
2016	Academic Excellence: Top 1% nationally in university admission test, highest math score regionally	<i>Vallenar, Chile</i>