

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)	<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%Reengineered onboarding flow through data-driven refactoring, resulting in 14% faster completion and 7% higher conversion rates	
Cardda (YC W22)	<i>Santiago, Chile</i>
Software Engineer Svelte · Ruby on Rails · Firebase	01/2024 - 03/2024
<ul style="list-style-type: none">Engineered an internal accounting system, reducing manual data entry and reconciliation time by 5 hours/weekDelivered key features for a corporate credit card platform, utilizing Svelte, Ruby on Rails, and Firebase	
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 · Grafana	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 average patient data sync time by 15 minArchitected scalable medical platform processing 40K+ records monthly, achieving 53% faster revision through ML modelsManaged team of 8 developers across 3 projects, implementing agile practices, designing roadmaps and collaboration frameworks	
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)Demonstrated effective teaching practices, receiving 95% positive student evaluations and earning strong recommendations from professors	

Education

University of Chile	<i>Santiago, Chile</i>
BS + MEng in Computer Science - GPA: 6.9/7.0 - Rank: 10/116 - Summa Cum Laude	03/2017 - 12/2019 + 07/2022 - 12/2023
Software Engineering, Privacy and Security, Programming Languages, Operating Systems, Databases, Networks, Discrete Mathematics	
École CentraleSupélec - Paris Saclay University	<i>Paris, France</i>
MSc in General Engineering Computer Science Track	03/2020 - 06/2021
Machine Learning, Game Theory, Advanced Statistics, Cryptography, Distributed Computing, Big Data, Quantum Computing, Optimization	

Skills

Programming Languages	Advanced: Python, TypeScript, C++, Scala · Familiar: Go, Ruby, Java, C, JavaScript, Lua
Cloud & Data	Docker, Kubernetes, Apache Spark · SQL, PostgreSQL, MySQL, MongoDB, REST-API, GraphQL
Frameworks & AI	Ruby on Rails, React and React Native, Django, Svelte · scikit-learn, PyTorch, MLlib (Spark), Deep Learning
Languages	Spanish native, French and English fluency (C1).

Honors & Awards

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