

Gabriel Rodríguez

Senior Software Engineer

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About me

I'm a Senior Software Engineer with over 10 years of experience designing and building scalable web applications, data pipelines, and distributed systems. I specialize in TypeScript, Node.js, Python, and cloud-native architectures, with a strong focus on backend development, performance optimization, and API design.

Skills

Programming	TypeScript, NodeJS, Python, C/C++, PHP, Bash, ReactJS, HTML/CSS, SQL, Postgres, MySql
Cloud & Infra	AWS (Lambda, DynamoDB, RDS, SNS), Terraform, Docker, Kubernetes, Apache Kafka, Flink, Debezium, Git, CircleCI, QEMU/KVM, CCNA, Github Actions
Languages	Spanish (Native), English (ESOL Examinations - First Certificate B2)

Experience

Software engineering

Apr 2024 – **OpenGov**, SENIOR SOFTWARE ENGINEER.

- Present
- Developed software for OpenGov's Procurement suite, a government technology company providing cloud solutions for the U.S. public sector
 - Implemented a permission system that enables confidentiality features
 - Optimized Flink data pipeline using PyFlink and Flink SQL to enhance the suite's reporting functionality
 - Maintained and improved a microservice infrastructure leveraging Kubernetes and Apache Kafka
 - Developed a public API subsystem with cache to efficiently serve reporting data
 - Focused on performance optimization and maintenance of the Flink data pipeline
 - Enhanced frontend accessibility compliance using tools like Axe and Wave

Nov 2021 – **Responsis - Cascade, FULL-STACK SOFTWARE ENGINEER.**

- Mar 2024
- Contributed to rewriting Cascade from PHP to Node.js and migrating to a distributed AWS cloud architecture using Lambda, DynamoDB, and API Gateway.
 - Designed the new code for the integrations feature that allowed an interface with Google, Microsoft, Atlassian and Salesforce APIs for data ingestion
 - Developed a public api with AWS ApiGateway to facilitate webhooks and connections from third parties like Zapier and Power Automate. This includes the certification of connectors for seamless interoperability
 - All infrastructure was deployed using Terraform and CircleCI
 - Enhanced frontend performance by optimizing GraphQL queries and implementing Apollo subscriptions, resulting in a tenfold improvement in platform speed and responsiveness
 - Played a key role in designing and optimizing frontend features utilizing ReactJS
 - Interviewed and trained new team members

2017 – Nov **Belaris, SOFTWARE ENGINEER, DEVOPS.**

- 2021
- Designed and developed web applications utilizing PHP Laravel framework
 - Led the deployment of applications on Linux environments using Docker

2020 **Freelance, SOFTWARE ENGINEER.**

- Developed Telegram bot with Python backend for automatic longing and shorting cryptocurrencies based on indicators and a simple machine learning model.

Electronic Engineering

March 2011 **National Atomic Energy Commission (CNEA), INSTRUMENTATION**
– Nov 2021 **AND CONTROL ENGINEER.**

- Design, manufacture and programming (VHDL) of modules for reactor protection systems of CAREM 25 and RA10 nuclear reactors
- Programming in C of votation and registration module for the Auxiliary Boron Injection System for Atucha II Nuclear Plant

2009–2011 **Institute for Scientific and Technical Research for Military Defense (CITEDEF), PIDEF Scholarship.**

- Computer controlled laser micromachining using solid state infrared laser
- Deployment and maintenance of servers based on Linux

Teaching

2007–2022 **C/C++ programming professor, NATIONAL TECHNOLOGICAL UNIVERSITY.**

2012–2013 **CCNA Instructor, NATIONAL TECHNOLOGICAL UNIVERSITY, Haedo Regional Faculty .**

Education

2005–2010 **Electronic Engineering, National Technological University (UTN), Haedo Regional Faculty.**

1998–2004 **Electronic Technician, Leonardo Murialdo Institute, Villa Bosch.**