



Mariano Martín Fresno

Senior Full Stack Developer | Automation, AI, and Infrastructure

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Summary

Senior Full Stack Developer with 15+ years of experience building production systems, internal tooling, and automation across modern JavaScript/TypeScript ecosystems, cloud platforms, and full-stack development. Strong focus on removing manual bottlenecks, improving delivery quality, and turning operational pain points into maintainable systems.

Experience

Aug 2025 – present

Senior Full Stack Developer, Healthee – Buenos Aires, Argentina

Full-stack development for healthcare applications with focus on system integration, customer operations, and delivery workflows.

- Frontend development with React, React Native, and Vue.js
- Backend services with Node.js and TypeScript
- Workflow automation for customer success and technical onboarding
- CI/CD improvements for safer releases and faster iteration
- AWS services including Amplify, Secrets Manager, DynamoDB

Dec 2024 – Aug 2025

Senior Software Engineer, Proofpoint – Cupertino, CA, United States

Development of large-scale distributed systems and data processing pipelines.

- Distributed systems development using Kafka and Flink
- Cloud infrastructure automation and scaling
- Security-focused data pipeline development
- High-performance system optimization

June 2023 – Dec 2024

Staff Engineer, Avature – Argentina

Full-stack development and platform engineering.

- Python and PHP backend development
- AWS EMR and data processing pipeline implementation
- CI/CD automation and infrastructure as code
- Docker and Docker Compose orchestration
- System monitoring and metrics with Prometheus
- Configuration management with Pydantic

- Dec 2018 – July 2023 **Senior Software Engineer**, Avature – Argentina
Backend and integration framework development.
- Integration framework development using PHP and JavaScript
 - Apache NiFi custom processors in Java
 - RESTful API development and OpenAPI specifications
 - Core product feature development
 - Database design and optimization
- Jan 2011 – Jan 2016 **CEO & Co-Founder**, Catálisis Desarrollos e Instalaciones – Colegiales, Capital Federal, Argentina
Full-stack software development, IT infrastructure, and embedded systems.
- Software development with Laravel, .NET, PHP, Python, C++, and Qt
 - Embedded systems development with Arduino and C++
 - IT infrastructure: servers, databases, web, FTP, SMTP, VPN systems
 - Database design and implementation
 - Linux system administration and Apache configuration
 - Free software migration and training
- Jan 2015 – Nov 2018 **Full Stack Engineer**, d3 – Argentina
Enterprise application development across multiple technology stacks.
- HL7-compliant medical systems (Java, Spring, HAPI-FHIR, Angular)
 - .NET Core and ASP.NET web applications
 - Ionic and AngularJS mobile applications
 - C++ multimedia systems (audio streaming, DirectShow, ffmpeg)

Education

- 2008 – 2012 **Universidad de Buenos Aires**, Licenciatura (40% completed) in Physical Sciences – Buenos Aires, Argentina
- 2012 – 2013 **Universidad de Buenos Aires**, Licenciatura (Introductory studies) in Philosophy – Buenos Aires, Argentina
- 1999 – 2005 **República Francesa**, Electronic Technician in Electronics and Communications – Argentina

Skills

Programming Languages: TypeScript, JavaScript, Python, PHP, Java, C#, C++, Arduino
Frontend Frameworks: React, React Native, Vue.js, Angular, Ionic, Qt
Backend Frameworks: Node.js, Express, .NET Core, Spring, Laravel
Cloud & Infrastructure: AWS, Kubernetes, Docker, Terraform, Linux
Databases: PostgreSQL, MongoDB, DynamoDB, MySQL
DevOps & Tools: CI/CD, GitHub Actions, Prometheus, Grafana, Git
AI Development Tools: Cursor, Antigravity, OpenCode, Codex, Ollama, GitHub Copilot

Languages

Spanish (Native)
English (Professional Working)