Gabriel Ramirez *April 9, 1983*

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Summary

Backend and Platform Engineer with over 10 years of experience designing distributed systems, leading engineering teams, and delivering software across e-commerce, fintech, healthcare, and public safety domains. Proven ability to simplify complex architectures through Domain-Driven Design and clean code principles. *Areas of expertise include:*

- Software architecture and engineering.
- Agile software development.
- IaaS technologies.
- CI/CD tools.
- Electrical and electronics engineering.
- Hardware and embedded software design.
- Data center infrastructure design.
- Network design.
- Leadership.

Experience

bol. UTRECHT, THE NETHERLANDS

Software Engineer *Nov '23 – Present*

Key Contributions:

- **Developing and maintaining backend services at scale** (20M+ users, 95k+ req/s combined mobile and web) across Go, Java, Kotlin, and Python, including the company's edge router, GraphQL connectors, and a legacy monolith being migrated to a microfrontend architecture.
- **Leading the migration of login handling from the monolith to an event-based login handler,** enabling other teams to add post-login actions such as anonymous-to-authenticated wish list merging.
- **Active member of a 4-person company-wide quality community,** driving adoption of testing and code quality practices across a multi-language engineering organization.
- **Leading the definition of quality constraints and configurations for AI-assisted code generation** (Claude) across the company.

Quin AMSTERDAM, THE NETHERLANDS

Recruited as Tech Lead for the newly created integration team; later promoted to Tech Lead of the platform team, where the team restructured the entire backend through Domain-Driven Design.

Tech Lead *Sep '21 – Oct '23*

Key Contributions:

- **Defined and maintained shared backend libraries** adopted across all engineering teams.
- **Standardized backend development workflows** including Git processes, code review practices, and CI/CD pipelines.
- **Led a 3-person team in consolidating 70+ microservices into a single event-driven modular monolith** with 5 bounded domains and 3 anti-corruption layer services, applying Domain-Driven Design throughout.
- **Reduced annual infrastructure costs from $2M+ to under $300K** (85%+ savings), accelerated deployments from quarterly to every merge to main, and cut developer onboarding time from nearly a year to days by aligning the architecture with standard Spring Boot practices.

Backbase AMSTERDAM, THE NETHERLANDS

Recruited as a Backend trainer for Backbase's core banking platform; promoted to the R&D department to develop "Digital Sales," a product enabling bank customer onboarding with automated identity verification, document signing, and notification integrations.

Backend Engineer *May '20 – Aug '21*

Key Contributions:

- **Architected a connector library template for third-party API integrations** (identity verification, SMS/email, document signing); personally built 5 connectors, grew to 12 with the team, and the template enabled 50+ connectors after departure.
- **Automated CI/CD pipelines to achieve zero-touch releases,** shifting bug detection to build time and reducing re-releases from twice weekly to once per quarter. Product served 5 banking clients.

Backend Trainer *Jan '20 – May '20*

Delivered 3 week-long training sessions on Backbase's core banking platform, training approximately 30 client engineers before the role pivoted due to the global pandemic.

Software Natura ASUNCION, PARAGUAY

Software consultancy providing development services to international clients.

Software Engineer *Feb '17 – Dec '19*

Key Contributions:

- **Led a 7-person consulting team delivering full-stack solutions for Dennis Kirk,** the second-largest American specialized powersports retailer (185k+ parts catalog), collaborating with 5 US-based developers.
- **Developed a C-based Linux kernel module** bridging a legacy Java/Struts call center application to a COBOL mainframe, then reimplemented the call center as a Spring Boot + Angular modular monolith with domain-driven boundaries.
- **Built a stock prediction application** using Spring Framework and Angular.

QA Engineer *May '16 – Jan '17*

Enforced code quality standards for a 100k+ line legacy CRM monolith serving American community colleges, within a 50-developer team. Grew test coverage from zero to 60%, shifting bug detection from weeks of end-user feedback to build-time catches by developers.

Santco SRL ASUNCION, PARAGUAY

Software company serving high-profile Paraguayan clients in cattle trading, logistics, and manufacturing.

Software Engineer & Team Lead *Nov '14 – Mar '16*

Key Contributions:

- **Implemented Agile development using Scrum** for a team of up to 8 developers building full-stack applications in PHP and jQuery.
- **Delivered 4 process-automation applications** on CakePHP and Google Cloud for Paraguay's leading cattle auction house, largest logistics company, and top leather manufacturer — enabling, for example, the auction house to increase bidding events from weekly to every two days.

Technoma SACI ASUNCION, PARAGUAY

Field Engineer *Mar '10 – Jul '12*

Key Contributions:

- **Designed and supervised network deployments across 500+ sites** for banking clients with nationwide branch networks.
- **Led the largest deployment of 200 branches** with 1,000+ NUC terminals and customer-facing printing services including documents, forms, and reports.

CBA SA ASUNCION, PARAGUAY

Technology Consultant *Mar '11 – Oct '11*

Key Contributions:

- **Established the virtualization and resource allocation stack** using Citrix XenServer, consolidating infrastructure for 15 clients into a shared, on-demand provisioning model.

Paraguayan Ministry of Interior ASUNCION, PARAGUAY

Recruited to design the nationwide Center of Security and Emergencies (CSE) for the National Police, Paraguay's 911-equivalent emergency services system.

Technology Consultant *Mar '10 – Mar '11*

Key Contributions:

- **Designed the physical network and data center infrastructure** for a $500M+ nationwide resilient optical network spanning Paraguay's major metropolitan areas, supporting tens of thousands of street cameras and coordinated dispatch of police, fire, and ambulance services in real time.

Catholic University of Asuncion ASUNCION, PARAGUAY

Junior Researcher *Oct '07 – Apr '10*

Key Contributions:

- **Defined the hardware platform for the "CompuBus" research project** in a 5-person engineering team, developing embedded software in C and C++ on microcontrollers and small-factor computers, including Linux kernel-level communication modules. Delivered a working prototype deployed with a bus company.

IT Manager *Oct '05 – Oct '07*

Key Contributions:

- **Managed approximately 30 internet-facing servers** and 4 computer labs totaling over 200 workstations.
- **Automated lab maintenance,** reducing end-of-semester rebuild time from weeks to hours per weekend, and converted manual server updates to fully unattended automated deployments.

Please refer to my Linkedin profile for the complete list of work experiences along with recommendations.

Education

University of Leuven   LEUVEN, BELGIUM
   Masters degree in Nanoscience and Nanotechnology   *2012 – 2014*
      Area of interest: Bionanotechnology.

Catholic University of Asuncion   ASUNCION, PARAGUAY
   Electrical Engineering (discontinued)   *2007 – 2010*
   Bachelors in Electrical Engineering   *2002 – 2006*

Skills

Languages: Java, Kotlin, Go, Python, C, C++, JavaScript, PHP, SQL.

Frameworks & Libraries: Spring Boot, Netflix OSS, CakePHP, jQuery, Angular, React.

Infrastructure & DevOps: AWS, Azure, Google Cloud, Terraform, Docker, Kubernetes, Jenkins, SonarQube, GitLab CI/CD, GitHub Actions, NGINX, Apache, Tomcat, PostgresSQL, MySQL, SQLServer.

Methodologies: Agile, Scrum, Domain-Driven Design, Clean Architecture, Microservices.

Natural languages: Spanish (*native*), Guarani (*native*), English (*full professional proficiency*), German (*limited working proficiency*), French (*elementary proficiency*).