

# Paul R. Messina

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## Summary

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Engineering leader with 30+ years of experience building and scaling high-availability systems across software, platform, and infrastructure, with a technology-agnostic approach shaped by experience from legacy systems to modern AI-enabled engineering (Python, LLMs).

Proven track record leading global, multicultural follow-the-sun teams across the United States and Europe, defining architecture and engineering standards, and driving execution in regulated and mission-critical environments.

Combines deep hands-on expertise (Unix/Linux, cloud, networking, databases, distributed systems) with a strong DevOps and AI-enabled engineering approach, including enterprise adoption of GitHub Copilot, LLM-based workflows, and developer productivity systems.

Operates across engineering, infrastructure, and leadership stakeholders, translating complexity into clear decisions and scalable outcomes.

## Work Experience:

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**WorldQuant** — Senior Engineer (DevOps) / Montevideo, Uruguay | 2024–Present

Senior Engineer for core services at a global quantitative research and investment firm.

- Lead a 10-person follow-the-sun engineering team, driving end-to-end delivery and service management across the full SDLC. Owned planning, execution, roadmap definition, and incident management, ensuring reliability, operational excellence, and continuous delivery with Agile methodologies.
- Design and implement scalable platform improvements to increase system stability, operational efficiency, and service performance, aligning engineering capabilities with product and operational needs.
- Introduced AI-driven workflows across Jira, Confluence, GitLab, and internal processes within a regulated environment.
- Contributed to beta testing and enterprise rollout of GitHub Copilot, supporting secure adoption of AI-assisted engineering tools, including RooCode, Claude, and OpenCode, aligned with compliance requirements.
- Coordinated cross-functional teams and external vendors, contributing to budgeting and improving delivery processes and incident response through Scrum/Kanban and ITIL practices.
- Improved collaboration and knowledge-sharing systems, including internal documentation and video platforms, enhancing information access and team alignment.
- Engaged in corporate and industry events across the United States and Europe, including onsite in Latvia and Uruguay.

Stack: GitHub Copilot, several LLM integrated with RooCode/OpenCode, Kafka, Airflow, GPC Postgres, ClickHouse, OpenFaaS, Grafana, Victoria Metrics, Kubernetes, Docker, ConfigAsCode, Terraform, Ansible, json/yaml, HPC: Slurm, RoCode, Gitlab (On Premises, Jira ConFluence, Zoom, PeerTube Integration with Azure MS Entra/LDAP.

## **Globant** — Senior DevOps Engineer | Argentina (Hybrid) | 2019–2024

- Coordinated distributed, multi-team engineering efforts for healthcare digital transformation initiatives, leading teams of 5–10 engineers and owning end-to-end SDLC delivery, including planning, execution, and incident management..
- Designed and implemented DevOps toolchains, improving delivery speed, scalability, and operational efficiency, while driving continuous delivery practices in Agile environments.
- Built and evolved observability solutions (ELK stack), enhancing monitoring, alerting, troubleshooting, and overall service visibility, strengthening incident response and operational reliability.
- Provided technical leadership across engineering and infrastructure, including mentoring, onboarding, and defining standards and best practices aligned with Scrum/Kanban and ITIL frameworks.
- Influenced architecture decisions and delivery practices in large-scale environments, driving cross-team alignment, improving execution consistency, and supporting scalable, reliable operations.
- Supported the adoption of AI-assisted engineering tools and workflows to improve developer productivity and delivery efficiency.

Stack: Github Enterprise / Gitlab Integration, J2EE + Spring + Angular, Jenkins, Terraform, SonarCube, ELK Stack, AWS: EC2/EKS, GCP: Cloud Run/Workflows

## **INVAP S.E.** Platform & Infrastructure Engineer | Bariloche, Argentina | 2012–2019

- Led platform, infrastructure, and data center engineering across a complex multi-project environment
- Reengineered internet access services and supported modernization of core infrastructure platforms
- Designed and deployed a VMware-based shared services cluster, improving service consolidation, scalability, and operational support
- Supported and upgraded HPC (Beowulf-style) clusters for nuclear development *workloads*, ensuring reliability for demanding technical environments
- Developed and executed storage capacity and upgrade plans across enterprise platforms (IBM DS3500, EMC VNX5200, IBM V5000)
- Drove the adoption of DevOps practices and tooling, improving collaboration, consistency, and engineering effectiveness across teams
- Collaborated across technical teams to align infrastructure capabilities with operational and project needs

Stack: HPC: Torque/Maui, Slurm, VMWare, Ceph, Jenkins, Jira, Gitlab (on-premises), AWS S3, SUSE Vibe, Squid

## **Earlier Experience:**

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Argentina, Canada, United States | 1990–2012

Held a series of senior engineering, architecture, consulting, and project leadership roles across hosting, banking, telecom, oil/gas, travel technology, and networked systems.

Key contributions included:

- Reengineering a large-scale DNS platform for an ISP supporting 400 physical servers, 2,000 VPS, and 7,000+ domains
- Building software for banking, including fixed income, and equities systems (Basel 2)

- Leading portal development and GDS integration for the travel industry
- Delivering solutions in ATM systems, telecom billing, value-added mobile services, and SCADA environments
- Supporting work in network engineering, TCP/IP programming, and banking software development

## Earlier Experience Details

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### **Independent Consultant / Senior Systems Engineer / DevOps-Cloud Consultant**

Nevada, USA / Buenos Aires, Argentina | 2008–2012

Supported hosting and infrastructure-focused projects, primarily for Bizwala Hosting LLC, in an offshore delivery model. Led the reengineering of a DNS platform for a hosting-oriented ISP environment spanning 400 physical servers, 2,000 VPS, and more than 7,000 domains.

### **Electronic Data Systems (EDS) — Senior Programmer / Systems Analyst | Buenos Aires, Argentina | 2004–2007**

Contributed to software development initiatives for an international bank in the Wholesale, Fixed Income, and Equities domains, working in an offshore delivery model.

### **Independent Consultant — Senior Programmer / Systems Integrator | Buenos Aires, Argentina | 2002–2004**

Worked on web hosting virtualization architecture and developed a DNS management web interface, combining software engineering with infrastructure integration.

### **Mark-2K / Empresite S.A. — System Architect / Project Leader | Buenos Aires, Argentina | 2000–2002**

Led development of a web portal for the tourism and travel industry, including integration with Global Distribution Systems (GDS).

### **Diebold DBP — Senior Programmer | Buenos Aires, Argentina | 1999**

Worked on system integration, multimedia solutions, and ATM programming and monitoring.

### **TYSSA - Telecomunicaciones y Sistemas S.A. — Project Leader / System Architect | Buenos Aires, Argentina | 1999**

Led billing system development for a major telecommunications client, Telefónica de Argentina S.A.

### **Miniphone S.A. — Project Leader | Buenos Aires, Argentina | 1997–1998**

Worked in the Value-Added Services area, contributing to the conception, development, and implementation of products and services.

### **Valmet Automation — Software Engineer | Calgary, Canada | 1996–1997**

Contributed to SCADA development for Transportadora de Gas del Norte (TGN).

### **Unifon / TCP S.A. — Network Analyst | Buenos Aires, Argentina | 1995–1996**

Provided network and corporate startup support in a telecom environment.

### **Independent Consultant — Open Technologies and Internetworking | 1994–1995**

Specialized in development on open technologies and TCP/IP programming.

### **GByA Sistemas SRL — Senior Analyst Programmer | Buenos Aires, Argentina | 1990–1994**

Worked on software development for banking and services environments.

## Education & Certification

- BSc in Information Systems, Universidad Tecnológica Nacional — 1989–1994
- ITIL v3 Foundation — 2014
- ISO/IEC 27001 (Information Security Management) — 2015
- VMware vSphere Optimize and Scale V6 — 2015
- COBIT (ISACA) — 2017
- DevOps Agile Skills Association (DASA) — 2017
- MSc in Science, Technology and Innovation, Universidad Nacional de Río Negro — 2018–Present
- FinOps Essentials for Cloud Deployments — 2024

## Languages

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- Spanish — Native
- English — Full professional proficiency

## Skills

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### Technical Skills & Expertise

#### AI Engineering & Developer Productivity

Enterprise rollout and operational enablement of GitHub Copilot, including beta participation, authorization, provisioning, and adoption support. Hands-on use of AI engineering tools including RooCode, Kiro, Antigravity, OpenCode, and Claude. Practical application of LLMs through APIs, CLI tooling, and engineering workflows. Experience evaluating and using modern AI platforms and models from OpenAI, Anthropic, and Google. Design and implementation of MCP integrations, reusable skills libraries, and AI-assisted engineering workflows to improve developer productivity, knowledge access, and engineering execution.

#### Engineering Delivery, Service Management & Leadership

Strong foundation in ITIL, Agile delivery, Scrum practices, and SDLC. Experience across planning, execution, incident management, service improvement, onboarding, cross-functional coordination, and continuous delivery. Familiar with governance and process frameworks including COBIT 5, Extreme Programming (XP), Essential Analysis, UML, and CMMI.

#### Cloud, Platform Engineering & Infrastructure

AWS, *Terraform*, VMware, VirtualBox, Virtuozzo, OpenVZ, Xen, MicroCloud

#### DevOps, Automation & Delivery

GitLab, Jenkins, Ansible, Salt, Chef, Puppet, Airflow, Kafka, SonarQube, GLPI

#### Monitoring, Observability & Reliability

Grafana, Prometheus, VictoriaMetrics, ELK Stack, Nagios, NagVis, Munin, OpenLDAP

#### Distributed Computing & HPC

Kubernetes, containers (Docker, containerd), Slurm, Torque, Maui, distributed and parallel computing environments

#### Databases & Data Platforms

PostgreSQL, MySQL, Oracle, MongoDB, Redis, Elasticsearch, DynamoDB, ClickHouse, Spark

### **Programming & Scripting Languages**

Python, Go, Java, JavaScript, PHP, *Ruby*, C/C++, Visual Basic, COBOL, Bash, Awk, Perl, PowerShell, HTML, XML

### **Testing & Quality Engineering**

Selenium, Cypress, Playwright, Puppeteer, TestCafe, JMeter

### **Networking & Communication Technologies**

Configuration of *Cisco*, Bay Networks, and 3Com devices; TCP/IP, BSD Sockets, TLI, X.25, Frame Relay, FCoE, MQ Series, SNMP, OpenView *Cisco*, Bay Networks, and 3Com devices;