

Ricardo Funes

SYSTEMS ENGINEER WITH MASTER IN CYBERSECURITY
DevOps | DevSecOps | AWS CCP

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SUMMARY

Results-driven Cloud DevOps Engineer with over nine years of progressive experience designing, automating, and securing cloud and on-premises environments across financial, governmental, and corporate sectors. Combines deep expertise in AWS cloud architecture, DevSecOps, and CI/CD pipeline automation with a strong foundation in cybersecurity, software quality assurance, and IT infrastructure management. Proven track record of delivering secure, scalable, and high-performing cloud solutions that drive digital transformation and operational efficiency.

Holds a Master's in Cybersecurity and the AWS Certified Cloud Practitioner credential.

Extensive experience managing and optimizing relational databases (SQL Server, MySQL, PostgreSQL, Oracle) and developing Python-based serverless applications—including API Lambda services that automate workflows, reduce manual overhead, and improve team performance.

Proficient in a wide range of DevOps and automation tools, including:

AWS, Docker (Dockerfile, Docker Compose), Kubernetes, Terraform, CloudFormation, Serverless Framework, CI/CD pipelines (Jenkins, CircleCI), Ansible, and GitHub. Skilled at leveraging these technologies to build scalable, automated, and compliant cloud infrastructures that support rapid, secure deployment lifecycles.

Driven by a passion for continuous improvement, security-first engineering, and cross-functional collaboration, I bring a proactive approach to problem-solving, adaptability to emerging technologies, and a strong commitment to operational excellence. My mission is to empower organizations to achieve agility, reliability, and security through innovative cloud and DevOps solutions.

JOB EXPERIENCE

May 2024 – To date

Cloud DevOps Engineer L2, *Cartful Solutions, Inc. (New York)*

- Research, design, and manage software programs to meet business and technical requirements.
- Test, evaluate, and modify software to fix errors, improve performance, and enhance functionality.
- Deploy software tools, processes, and metrics to streamline development and operations.
- Direct software programming efforts and develop documentation for systems and applications.
- Write and implement code following best practices and coding standards.
- Prepare reports on programming projects, including specifications, activities, and status updates.
- Consult with engineering teams to evaluate software-hardware interfaces and define performance requirements.
- Automate operational and development workflows, ensuring adherence to security standards and best practices.
- Integrate Continuous Integration/Continuous Deployment (CI/CD) pipelines using Jenkins.
- Design and document architectures for integrated solutions across systems.
- Manage and provision services on AWS cloud infrastructure.
- Provide support and maintenance for development and production environments.
- Collaborate with operations and development teams to troubleshoot and resolve technical issues.

Advanced Engineering and DevOps Achievements:

- Developed multi-architecture Docker images across different tech stacks using build layers and multi-stage techniques to optimize performance and reduce image size.
- Designed and implemented serverless microservices to automate cross-team processes, achieving 15× efficiency gains, reducing human error, and enforcing Principle of Least Privilege (PoLP) and Role-Based Access Controls (RBAC).
- Implemented custom API request signatures based on HMAC algorithms to prevent tampering and impersonation, aligning with zero-trust security principles.
- Supported SOC 2 Type II audit requirements, including vulnerability management and resolution processes in accordance with defined SLAs.
- Deployed diverse technology stacks—from APIs to full web applications—using Infrastructure as Code (IaC) and Configuration as Code (CaC) for consistent, reproducible environments.
- Administered relational databases, automating the database lifecycle process, and implementing secure access controls using PoLP principles.
- Executed secure production deployments following Secure Development Lifecycle (SDLC) best practices to ensure compliance with SOC 2 Type II standards.
- Developed programmatic integrations between various services, including cloud providers, CDNs, communication tools, and custom APIs.
- Automated workflows and processes through end-to-end CI/CD pipelines, improving reliability and reducing manual intervention.
- Deployed and maintained scalable, secure cloud infrastructure for web applications and APIs, ensuring high availability and compliance.
- Troubleshooted and optimized multiple technology stacks, providing fixes and long-term stability improvements.

September 2022 – May 2024

Cybersecurity Analyst L3, *Banco Agromercantil de Guatemala, S.A.*

- Audited and monitored technology projects to enforce cybersecurity best practices and compliance with standards.
- Led the management and implementation of DevSecOps processes to embed security in the development lifecycle.
- Advocated cybersecurity awareness and best practices throughout Digital Transformation initiatives.
- Investigated cybersecurity threats and produced detailed reports on attack vectors and mitigation strategies.
- Coordinated periodic risk assessments and penetration testing to evaluate and strengthen security posture.

August 2021 – September 2022

Senior Software Quality Assurance Engineer, *Superintendencia De Administración Tributaria.*

- Developed test scenarios and conducted both functional and non-functional testing for customs systems.
- Reviewed and enhanced use cases to improve software quality and coverage.
- Automated testing processes to increase efficiency and reliability.
- Validated and reviewed changes prior to deployment in production environments.

September 2017 – August 2021

Hardware Software Technician, *Superintendencia De Administración Tributaria.*

- Managed telecommunications equipment ensuring optimal performance and reliability.
- Installed and terminated structured network cabling (Cat5e/Cat6) following industry standards.
- Monitored network traffic and internet connectivity for availability, performance, and security.
- Installed, configured, and maintained client and server operating systems.
- Provided remote support for incident resolution and troubleshooting.
- Implemented and managed security controls for telecommunications infrastructure and end-user devices.

January 2016 – September 2017

IT Support Analyst, *Close-Up International.*

- Provided comprehensive IT support to end-users, troubleshooting hardware and software issues.
- Performed data cross-validation and integrity checks using SQL Server queries.
- Executed functional and non-functional testing to ensure application quality and performance.
- Managed and maintained Windows Server environments, including configuration and updates.

June 2015 – October 2015

Junior Developer | IT Support Analyst, *INDISSA.*

- Developed desktop applications using C# and .NET framework with seamless integration to SQL Server databases.
- Delivered ongoing application support and issue resolution to enhance system stability.

EDUCATION

2023

AWS Certified Cloud Practitioner,
Intecap TIC'S Center

2023

AWS Networking | Infrastructure As Code | AWS Cloud Architecting Essentials,
Universidad de San Carlos de Guatemala, Open Course Program

2021

Masters In Cybersecurity,
Universidad Mariano Gálvez de Guatemala.

2019

Systems Engineer And Bachelor's Degree In Computer Science,
Universidad Mariano Gálvez de Guatemala.

SKILLS

Languages: Spanish (Native), English (Advanced)

Programming Languages: Python, JavaScript

DevOps & Automation: AWS (Certified Cloud Practitioner – CCP), Docker (Dockerfile, Docker Compose), Kubernetes, Terraform, CloudFormation, Serverless, CI/CD (Jenkins | CircleCI), Ansible, GitHub

Cybersecurity: Nessus (vulnerability scanning), Kali Linux (exploitation), Cisco ASA (firewall, VPN), pfSense (network filtering), perimeter security, network security

Databases: SQL, MySQL, PostgreSQL, Oracle

Networking: Switching and Routing with Cisco, TP-Link, and DELL equipment; network virtualization with GNS3

Operating Systems: Linux, Windows, macOS

Standards & Best Practices: ISO/IEC 27000, ITIL, COBIT 2019, ISO/IEC 38500

PROFESSIONAL REFERENCES

- **Geordie Quiroa, Phone:** +34 637 411416 (*Cartful Solutions, Inc.*)
- **José Reyes, Phone:** +502 3456 6712 (*Banco Agromercantil de Guatemala*)
- **Julio Leonardo, Phone:** +502 5514 3447 (*Superintendencia de Administración Tributaria*)



Cartful Solutions, Inc.
PO Box 520
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October 30, 2025

To Whom It May Concern,

I have the pleasure of working with Ricardo as a DevOps Engineer at Cartful. From day one, he has shown exceptional technical depth, initiative, and a strong sense of ownership in everything he takes on.

Ricardo has been central to building and maintaining our cloud infrastructure and deployment pipelines. He develops optimized multi-architecture Docker images, automates workflows through serverless microservices, and implements secure integration patterns that align with our zero-trust policies. His work has meaningfully improved efficiency across teams by automating manual processes, reducing human error, and enforcing principle-of-least-privilege access controls.

He also contributes heavily to our SOC 2 Type II compliance efforts, approaching every challenge with a thoughtful, structured mindset and a focus on long-term maintainability. Ricardo balances independence and collaboration exceptionally well. He communicates clearly, follows through on commitments, and elevates the people around him.

We will be sad to see Ricardo move on but are genuinely excited to see where his career takes him next. Any team would be lucky to have him.

Sincerely,

A handwritten signature in black ink, appearing to read "Timothy Petrella", with a stylized, flowing script.

Timothy Petrella
CEO, Cartful Solutions
Tim@CartfulSolutions.com