

Hector Rubalcava

Technical Profile

For Senior Engineers and Architects

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Technical Summary

- Engineering profile centered on resilient architecture, automation and cloud runtime optimization.
- Hands-on delivery across API governance, serverless patterns, event-driven migration and banking systems.

Architecture Domains

- Distributed systems design, service decoupling, event choreography and observability.
- Monolith-to-event-driven decomposition and on-premise to AWS ECS migration.

Cloud and Infrastructure Automation

- Apigee installation and orchestration on GCP using Terraform + Ansible.
- Automated creation/destruction of environments and repeatable IaC workflows.
- Containerized certified environments with Docker and Minikube validation.

API Governance and Serverless

- Apigee policy architecture: keys, apps, paths, OpenAPI contracts and traffic controls.
- Lambda standards with TypeScript/JavaScript/Python/Rust and esbuild archetypes.

Financial Systems Engineering

- QFund microservice refactoring and financial lifecycle domain modeling.
- Business-rule integration for billing and operational UX-oriented systems.

Data, AI and Integrations

- MongoDB and DocumentDB operational usage; Oracle integration exposure.
- RAG implementation for business context extraction and knowledge retrieval.
- Telegram bots and Teams session-control integration with AI-assisted workflows.

Performance and Systems Thinking

- Python optimization from 16s to ~200ms in customer offer flows.
- Principles: decompose complexity, automate decisions, design evolvable systems, preserve observability.

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