


SANTIAGO DUQUE

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SUMMARY

Tech Lead with 5+ years building scalable cloud systems. Specialized in AWS serverless and event-driven architectures. Currently leading a technical team at Bold (Colombian fintech). Focus on mission-critical systems, security, and developer experience.

EXPERIENCE

Bold **September 2020 – Present**
Fintech – Payments & Merchant Cash Advance *Remote, Colombia*

Tech Lead & Senior Software Engineer *January 2026 – Present*

- Led delivery of a critical merchant cash advance feature in 2 months with zero launch defects, designing intra-day balance reconciliation with backup recovery and optimizing database writes for closing operations.
- Lead technical direction and architectural decisions for the merchant cash advance product.
- Define technical roadmap in collaboration with product and represent engineering in cross-functional strategic discussions.
- Mentor engineers through design reviews and 1:1s, and establish coding standards and engineering best practices for the team.

Senior Software Engineer *September 2020 – January 2026*

- Designed and led development of the credit product from scratch applying Domain-Driven Design; integrated 3 third-party services for credit scoring, KYC, and payment processing.
- Reduced regulatory reporting errors by 99% by designing a robust ETL pipeline with multi-layer data validation, ensuring compliance accuracy and reducing manual review overhead.
- Reduced recurrent production errors by 60% through systematic log analysis and root cause remediation, cutting operational alerts by 80% and improving system reliability.
- Drove 20% reduction in monthly AWS spend by profiling and right-sizing memory configurations across a large Lambda fleet, and decommissioning idle workloads in dev/staging environments.
- Led onboarding flow redesign, reducing registration time by 30% through process simplification.

SysCafe Colombia **December 2019 – June 2020**
Software Engineer *Colombia*

- Backend development with C# and SQL Server; modernized legacy components and optimized database queries for improved performance.

TECHNICAL SKILLS

Cloud & Infrastructure: AWS (Lambda, ECS, DynamoDB, API Gateway, CloudWatch, Athena, Step Functions), AWS CDK, Terraform

Languages: Python (expert), TypeScript, C#, SQL

Architecture: Serverless, Event-Driven, Domain-Driven Design (DDD), Microservices, CQRS

Practices: Infrastructure as Code, CI/CD, Technical Mentoring, Design Reviews, Technical Decision Making

Databases: DynamoDB, SQL Server, PostgreSQL

Tools: Grafana, CloudWatch, Git, Linux

EDUCATION

UNIR – Universidad Internacional de La Rioja **2022 – 2026**
Systems Engineering (Ingeniería Informática) – Expected December 2026

Platzi **2020 – 2022**
Platzi Master Program

SENA **2018 – 2020**
Technologist in Information Systems Analysis and Development

CERTIFICATIONS

AWS Solutions Architect Professional – In progress, expected Q2 2026

INTERESTS & CURRENT FOCUS

Cloud security architecture, threat modeling for serverless systems, and practical AI tooling for engineering productivity (Claude Code, agentic workflows, internal tooling).