

Hector Aguirre

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Summary

Software Engineer with 8+ years of experience designing and deploying cloud-based, distributed applications for global clients. Proven track record leading teams of developers across LATAM to deliver high-performing solutions using Golang, Python, IaC (Terraform, CDK, SST), and AWS. Enthusiastic about tackling new challenges, with exceptional problem-solving skills and a passion for continuous learning and innovation.

Experience

Senior Software Engineer - Architect (Golang)

Mar 2024 – present

Disney (ABC News) - Contractor through Globant

- Built REST API serving real-time video recommendations for ABC News vertical video platform launch using Golang, AWS Personalize, DynamoDB, and OpenTelemetry on ECS (CloudFormation).
- Architected a new service to adopt the Disney Plus Video Player across multiple Disney brands (ABC News, ABC, Natgeo), integrating various CMSs and orchestrating SSAI (Server-Side Ad Insertion) using Golang, AWS CDK, and ECS.
- Led real-time push notification system for 2024 U.S. elections coverage, serving millions of ABC News mobile users with Golang, AWS (Lambdas, SQS, SNS), and Braze.
- Built custom lexer/parser for content management shortcodes, enabling editors to embed rich media across web and mobile platforms with automated validation and translation.
- Migrated legacy Java/Groovity services to Golang, achieving 40% performance improvement and simplified ECS deployments using CDK infrastructure-as-code.
- Delivered publishing telemetry and metrics system with custom Grafana dashboards, reducing story publication times through data-driven workflow optimizations.

Tech Lead

Aug 2021 – Mar 2024

Crehana

- Led international team of 5 developers, providing technical mentorship, code reviews, and establishing CI/CD pipelines that reduced deployment times by 60%.
- Architected event-driven distributed system synchronizing user configurations across 3 applications using Python, AWS (SQS, SNS, Lambdas, Step Functions).
- Built enterprise SSO solution (SAML2/OAuth2) with Python/FastAPI deployed on Kubernetes, enabling secure third-party integrations for 50+ enterprise clients.
- Migrated custom GraphQL proxy to Apollo Federation and developed public REST APIs (Golang, Kubernetes), improving API performance and enabling client integrations.
- Implemented Elasticsearch-powered content search with automated LMS integrations (Moodle, SAP SuccessFactors), reducing manual provisioning efforts by 80%.

Backend Engineer (Consultant)

June 2021 – Aug 2021

MINSA (Peru's Ministry of Health)

- Built MINSA's 'Teleatiendo' virtual healthcare platform with electronic prescription signatures (Python, Javascript, PostgreSQL)"

Backend Engineer (Consultant)

Mar 2021 – July 2021

La Positiva - Digital Transformation Lab

- Developed automated car insurance workflows using Django (Python) and AWS services.
- Implemented a full-stack internal website used by brokers to calculate insurance quotations.

Full-stack Developer (Consultant)

Dec 2020 – Mar 2021

German Corporation for International Cooperation GmbH (GIZ)

- Created a mobile app for COVID-19 Medical Training for MINSA, using Python (FastAPI) for the backend and Flutter for the mobile client.
- Deployed containerized applications on AWS with Docker, Nginx, and PostgreSQL, ensuring reliability for medical staff in remote jungle communities.
- Implemented synchronization and caching for offline functionality, increasing accessibility for users with limited connectivity.

Backend Developer

Dec 2019 – Feb 2021

Simple Peru

- Built REST APIs (Python, Flask, PostgreSQL) for custom Leasing Systems, ensuring scalable and secure integrations.
- Developed a mobile app (Flutter) for spot reservations during the COVID-19 pandemic, improving user safety and business compliance.
- Used Docker and AWS for seamless deployment of backend solutions.

Earlier Experience

Automotive Manufacturing (2019): Built BI dashboards and automation tools for laminated glass production serving Tesla, McLaren, Volkswagen, and BMW (Power BI, Power Apps)

Academic Research (2018): Developed experimental economics games and managed AWS infrastructure for decision-making research studies (Python, AWS)

Financial Systems (2017): Created transaction processing software and Windows applications for financial services (C, C#, SQL)

Skills

- **Languages:** Go, Python, JavaScript/TypeScript, Dart
- **Backend Frameworks:** Echo (Go), FastAPI, Flask, Django, Hono (Node.js)
- **Cloud & Infrastructure:** AWS (Lambda, ECS, SQS, SNS, Step Functions), Terraform, CDK
- **Databases:** PostgreSQL, DynamoDB, Elasticsearch, Redis
- **Architecture:** Microservices, Event-driven systems, GraphQL, REST APIs
- **DevOps:** Docker, Kubernetes, GitLab CI, Jenkins, Linux, containerization

Education

Pontifical Catholic University of Peru (PUCP)

Bachelor in Mechatronics Engineer

Peru

Mar 2013 – Dec 2018

Universität Duisburg-Essen

Exchange Program in Elektrotechnik und Informationstechnik

Germany

June 2017 – Mar 2018

Languages

- **English:** Advanced
- **Spanish:** Native Speaker
- **German:** Intermediate

Awards

1st place on the 5th Hackathon organized by the National Society of Mining, Oil and Energy (Peru)

June 2019

- Distributed system for real-time air quality monitoring and early warnings for critical events.