

Hector Aguirre

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Summary

Software Engineer with 7+ 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

Software Architect (Golang)

Mar 2024 – present

Globant - Disney (ABC News)

- Led a project to implement real-time push notifications for the ABC News Mobile App covering the 2024 U.S. elections, utilizing Golang, AWS (Lambdas, SQS, SNS), and Braze.
- Created 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). Deployed in AWS using CDK and ECS.
- Built AWS Lambdas to gather publishing metrics, reducing story publication times and enabling data-driven improvements via a custom Grafana dashboard.
- Developed a new CMS object type and corresponding API endpoint to enable “Breaking News” homepages for Disney’s Owned TV Brands, extending the ABC News mobile app’s backend capabilities.
- Migrated services from Java/Groovity (a custom Groovy-based language) to Golang, achieving improved performance and deployability on ECS with CDK.

Tech Lead

Nov 2021 – Mar 2024

Crehana

- Created a configurable Single Sign-On (SSO) solution (SAML2/OAuth2) with Python and FastAPI, deployed in Kubernetes, enabling secure integration with third-party services.
- Developed an event-driven distributed system for synchronizing user/admin configurations across three applications, leveraging Python, SQS, SNS, Lambdas, and Step Functions.
- Integrated with Moodle LMS to automate course provisioning and progress updates using AWS services, improving data consistency and reducing manual efforts.
- Implemented a content search feature (Python, Elasticsearch, SQS, SNS, Lambdas) with SSO-powered links and event-driven progress tracking.
- Developed a public REST API with Golang, Docker, and Kubernetes for personalized client integrations.
- Created multiple microservices exposing GraphQL APIs via Python/FastAPI, ensuring modular, maintainable backends.
- Migrated a custom GraphQL proxy to Apollo Federation, boosting API performance and scalability.
- Established CI/CD pipelines with GitLab CI for automated testing, linting, and deployment, reducing release times and improving quality.
- Led an international team of five developers, providing technical guidance, code reviews, and coaching for professional growth.

Backend Engineer

Aug 2021 – Nov 2021

Crehana

- Developed an integration with SAP Success Factors (LMS) using an event-driven architecture to synchronize course data and progress information (Python, AWS Lambda, SQS, SNS, API Gateway, Terraform).
- Designed and implemented GraphQL APIs using Python (Flask, FastAPI, Django) for enhanced data access and flexibility.

Backend Engineer (Consultant)*June 2021 – Aug 2021**MINSA (Peru's Ministry of Health)*

- Contributed to MINSA's "Teleatiendo" virtual healthcare app, enabling patient appointments and secure prescription uploads.
- Implemented electronic identity card-based signature for medical prescriptions and orders, strengthening data authenticity.
- Utilized Python, PostgreSQL, and Nginx for backend development, deployed on on-premises servers.

Backend Engineer*Mar 2021 – July 2021**La Positiva - Digital Transformation Lab*

- Developed backend features for the "Mobility" mobile app using Django (Python) and AWS.
- Implemented a broker feature to calculate insurance quotations and automated car insurance sales via the mobile app.

Fullstack Developer (Consultant)*Dec 2020 – Mar 2021**German Corporation for International Cooperation GmbH (GIZ)*

- Developed a Mobile Training Application about COVID-19 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.
- Assisted in training medical staff on pandemic management through the application's interactive modules.

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 Flutter-based mobile app for spot reservations during the COVID-19 pandemic, improving user safety and business compliance.
- Implemented Docker and AWS for seamless deployment of backend solutions.

Trainee Supplier Development Engineer*Feb 2019 – July 2019**American Glass Products (AGP)*

- Supported a leading manufacturer of laminated glass for Tesla, McLaren, Volkswagen, and BMW by providing data-driven BI insights via Power BI.
- Built automation apps with Microsoft Power Apps and Flow, streamlining internal processes and boosting efficiency.

Trainee in the Experimental Economics Laboratory*Apr 2018 – Dec 2018**Pontifical Catholic University of Peru (PUCP)*

- Programmed experimental games in Python to gather decision-making data for research studies.
- Managed web pages and AWS-based servers for reliable and scalable experiment deployment.

Trainee Developer*Jan 2017 – July 2017**Novatronic*

- Developed programs in C for managing financial transactions.
- Created a native Windows app with C# and SQL to handle transaction processing.

Education

Pontifical Catholic University of Peru (PUCP)*Peru**Bachelor in Mechatronics Engineer**Mar 2013 – Dec 2018***Universität Duisburg-Essen***Germany**Exchange Program in Elektrotechnik und Informationstechnik**June 2017 – Mar 2018*

Skills

- **Go:** Web Apps and CLI utilities
- **Python:** REST and GraphQL APIs (Flask, FastAPI, Django)
- **JavaScript/TypeScript:** REST APIs using Node.js, plus frontend development with React and Solid
- **C:** APIs and embedded systems
- **Dart:** Mobile apps with Flutter
- **Terraform:** Deploy services using IaC
- **SQL:** PostgreSQL, MySQL
- **Docker:** Deployment of containerized apps
- **AWS:** Architecture design with ECR, ECS, EC2, SQS, SNS, Lambdas, Step Functions, API Gateways, etc.
- **Elasticsearch:** Indexing content and building custom search features
- **Redis:** Cache and session management
- **GitLab CI:** Linting, testing, and deployments

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.