Hector Aguirre

♦ Lima, Peru
Imaguirre.arista@gmail.com
Imaguirre.ar

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

Disney (ABC News) - Contractor through Globant

- Created a custom lexer and parser for new shortcodes that editors use to embed media (such as videos, images, and more) in articles. We validate, parse, and translate those shortcodes into the actual media when serving the story to the webpage or mobile apps.
- 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 platform used by brokers 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

Exchange Program in Elektrotechnik und Informationstechnik

Germany 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, and frontend development with React and Solid
- **C:** APIs and embedded systems
- **C#:** Windows native apps
- Dart: iOS and Android mobile apps with Flutter
- Terraform: Deploy services using IaC
- AWS CDK: Deploy services using IaC
- ° **SQL:** PostgreSQL, MySQL, SQL Server
- **DynamoDB:** usage in serverless applications
- **Docker:** Containerization and deployment of web 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:** Building pipelines for Linting, testing, and deploying applications

Languages _

• English: Advanced

Spanish: Native Speaker German: Intermediate

• French: Basic

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.