

# OSAIN ABITIA

## Software Engineer



Durango, Mexico

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### WHO AM I?

I'm a certified **AWS Solutions Architect and Software Engineer** with a passion for leading teams to build impactful products that address real-world needs. With a strong background in managing cloud technologies like **AWS**, and a strong background with **programming languages like Python**, I have solid experience in designing and building secure, reliable, and scalable systems within the cloud.

### CERTIFICATES

**AWS Certified Solutions Architect (Associate)** - issued by Amazon Web Services

**AWS Certified Cloud Practitioner** - issued by Amazon Web Services

**AWS Well-Architected Proficient** - issued by Amazon Web Services

**AWS Partner: Accreditation (Technical)** - issued by Amazon Web Services

**AWS Partner: Accreditation (Business)** - issued by Amazon Web Services

### LANGUAGES

**Spanish** - Native

**English** - C1

### EXPERIENCE

Mar 2024 – Present

#### Senior Software Engineer 2 - Platform Team

**Apli Jobs**

In this role, I led process standardization for infrastructure creation using Terraform modules, reducing the development cycle by 80%. This efficiency gain allowed me to take the initiative to start Dockerizing services and deploy them on ECS, significantly streamlining deployment processes.

I also designed and exposed REST APIs through API Gateway, enhancing system integration. To ensure system reliability under load, I introduced Stress Testing with Artillery, creating complex API workflows to simulate real user interactions, which identified bottlenecks and accelerated service release times.

AWS / Python / Docker / GitHub / Artillery Load Tests / Terraform / Mentorship

Jan 2022 – Mar 2024

#### Software Engineer - Cloud Team

**Apli Jobs**

As the first and only Cloud Engineer during my initial 6 months at Apli, I spearheaded the design and implementation of cloud-based architecture for cross-team projects, collaborating with Data Science, Product, and Engineering teams. Utilizing AWS services such as EMR, ECS, DynamoDB, Lambda, AWS Backup, RDS, and Redis, I also successfully implemented cost optimization mechanisms that reduced the company's costs in around 10% for the first year.

I initiated and led internal efforts to bolster company culture and enforce security protocols. I was a key member of the committee that introduced the on-call program to the Engineering team, which resulted in a response time against incident of less than 4 hours. I also led the ISO audit and certification process for cloud infrastructure controls, ensuring our architecture met the highest standards of security, scalability, and reliability, which culminated in achieving ISO 27k1.

As the team expanded, I took on a mentor and leadership role, establishing processes that improved code quality, including enhanced documentation, automated security checks in CI/CD, and regular knowledge-sharing meetings.

AWS / Python / Docker / GitHub / Terraform / GCP / Lidership

Feb 2021 – Jan 2022

#### Backend Developer • AWS Cloud Engineer

**Galaxy Technology**

As a Backend Engineer and Team Lead, I crafted REST APIs and oversaw database management using Node.js with Express and Sequelize. My role extended to hosting essential services within AWS, employing tools like Lambda, API Gateway, AppSync, DynamoDB, SNS, and SQS. Collaborating closely with customers, I addressed change requests and implemented new functionalities, enhancing our services to meet evolving needs.

Node.js / Express / Sequelize / AWS / GraphQL / Python / Serverless

## EDUCATION AND PERSONAL PROJECTS

2022	<b>NFarm</b> Developed a basic MVP for a blockchain-based digital traceability system for cattle using NFTs and smart contracts, enabling farmers to ensure product quality and reduce food waste. Secured first place in the NFTs category.	<b>Zencon International Hackathon</b>
2019	<b>Lung Cancer Detection System with AI - Damai</b> Developed an MVP system using Convolutional Neural Networks and image processing to detect lung cancer in its early stages. Selected as one of the top 100 projects representing Mexico at Expo Science International in Abu Dhabi, UAE.	<b>Expo Science International</b>
2017 – 2020	<b>Software Engineering</b> Graduated with a 9.42 out of 10 score.	<b>Universidad Politécnica de Durango (UNIPOLI)</b>

## FREELANCE AND VOLUNTEERING

2024	<b>Solutions Architect Consultant (Bullground) - Freelance</b> Designed and implemented the startup's entire network distribution, optimizing CIDR block allocation to establish scalable and structured network guidelines. Developed reusable Infrastructure as Code (IaC) modules based on architectural patterns, enabling the engineering team to deploy infrastructure seamlessly by adjusting parameters. These standardized modules ensured consistency, security, and maintainability across the platform. Leveraging these improvements, successfully deployed the startup's first three services, laying the foundation for future scalability.	<b>Mexico, Remote</b>
2022	<b>How to pitch your project idea? (Speaker) - Volunteer</b> Participated in a workshop for students at the <i>Universidad Politécnica de Durango</i> on the key points to consider when pitching an idea to potential investors or during a hackathon, explaining the sections that an elevator pitch should have to create a big impact, using as an example my experience at the Zencon International Hackathon and Expo Science International.	<b>Durango, Mexico</b>
2020	<b>World Sustainable Development Forum (Volunteer) - Volunteer</b> Translator for the speakers at the World Sustainable Development Forum, translating from English to Spanish and vice versa during the 3 days the event lasted. This forum had as its main objective to discuss climate change to encourage the citizens to take action against it.	<b>Durango, Mexico</b>

## HOBBIES

**Continuous Learning:** I regularly read technical books and take courses on new technologies and tools to enhance my skills.

**Work-Life Balance:** I prioritize balancing work with personal life to spend quality time with my family. Also I love traveling

**Podcasts:** I'm a fan of paranormal podcasts. Feel free to share any recommendations with me.

**Books:** Always open to new recommendations, the last books I read were The Staff Engineer's Path and The DevOps Handbook.

For book, course, or podcast recommendations, you can reach me at [osain.abitia@gmail.com](mailto:osain.abitia@gmail.com).