Jorge Arturo Aliaga Valencia

Santa Cruz de la Sierra, Bolivia ✉ jaav2801@gmail.com ☎ +591 75372221 in arturo-aliagav ☁ https://arturoaliaga.vercel.app

SUMMARY

As a Full-Stack Developer, I develop web and mobile applications using React, Next.js, Angular and Flutter, with a focus on clean design, solid architecture and scalable solutions. I work across the stack with NestJS, Spring Boot, and Python frameworks such as FastAPI and Flask, supported by optimized databases like PostgreSQL and SQL Server.

I have experience building microservices-based systems, deploying with Docker and Kubernetes on AWS (EKS) and Google Cloud (GKE), and improving performance through caching and automation. I also have a strong interest in Artificial Intelligence, integrating machine learning models into applications using Python-based APIs.

EXPERIENCE

Full Stack Developer

Freelance   April 2022 - Present

- Transformed business requirements into responsive digital applications by employing modern frontend and mobile development technologies including React, Next.js, and Flutter.
- Developed scalable and high-performance APIs utilizing Node.js, Express, Spring Boot, Flask, and FastAPI by structuring endpoints for modularity and applying authentication and authorization strategies.
- Use of Redis for caching, performance optimization and distributed data management.
- Configured orchestration workflows with Kubernetes, EKS, and GKE to support scalable, distributed systems and seamless service operation.
- Application of process automation in planning, orchestration and management systems.
- Engineered end-to-end CI/CD pipelines leveraging tools such as Jenkins, GitHub Actions, and GitLab CI, substantially decreasing deployment cycles and improving release reliability across multiple environments.

Fullstack Developer & Machine Learning Engineer

UplabsAI   January 2025 - April 2025

- Designed and developed intelligent automation solutions leveraging OCR, clustering, embeddings, and natural language processing (NLP) techniques.
- Built robust data extraction pipelines using OpenCV, Tesseract, and custom NLP models to process scanned documents and unstructured text.
- Developed high-performance RESTful APIs using FastAPI, with a focus on scalability, modularity, and asynchronous processing.
- Implemented recommendation and classification systems based on semantic similarity and unsupervised machine learning (e.g., K-Means, DBSCAN, Sentence Transformers).
- Automated repetitive workflows through microservices and background workers, optimizing for efficiency and maintainability.
- Collaborated cross-functionally with product and engineering teams to translate operational needs into AI-driven backend services.

EDUCATION

Systems Engineering

Universidad Autónoma Gabriel René Moreno (UAGRM) · 2025

CERTIFICATIONS

Python for Data Science and AI

IBM · 2025

PH125.8x: Data Science – Machine Learning

Harvard University · 2025

RAG for Generative AI Applications Specialization

IBM · 2025