Alejandro Carrasco Rodríguez

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Technical Lead – Web & AI Systems

https://www.linkedin.com/in/alejandro-carrasco-web-ai-engineer

Engineer with experience in technology team leadership and software solutions development. Specialized in aws cloud architecture, RPA/IPA automation, and AI-powered systems development. I have led interdisciplinary teams across multiple organizations, from startups to established companies, designing technological ecosystems and optimizing AWS infrastructures. My approach combines technical skills with strategic planning to align technological capabilities with business objectives and product requirements.

I speak Spanish (native) and English (B2).

AI Engineer at Allup Teky | Jan. 2025 – Present

- Designed and delivered AI-enabled product features end to end.
- Created conversational chatbots with langchain and LLMs, new AI models by training, analytical workflows, and RPA/IPA automations with n8n.
- Developed and maintained the web layer of the company's product.
- Supported and scaled the AWS infrastructure for AI to meet evolving product feature requirements.
- Translated product requirements into scalable capabilities and measurable outcomes.

Programs Coordinator and Tech Director at HRBC Foundation | Apr. 2024 – Dec. 2024

- Designed and implemented the organization's end-to-end technology ecosystem.
- Defined, developed, and deployed core services on AWS.
- Led cross-functional teams ensuring alignment of different contexts and workflows.
- Established engineering standards, operating procedures, and technical documentation.

Engineering Team Leader at Deltec | Feb. 2022 – Mar. 2024

- Directed automation initiatives and feature development for core products.
- Designed and implemented a geolocation and asset-tracking system.
- Automated version control workflows and CI-based testing processes.
- Coordinated release activities and executed production deployments.
- Defined documentation standards and ensured consistent adoption across teams.

Software and Innovation Team Leader at Eventech | Oct. 2020 - Jan. 2022

- Led UX-driven product development with an emphasis on usability and maintainability.
- Developed a reusable core codebase and shared component libraries.
- Managed infrastructure operations and executed platform migrations with minimal downtime.
- Designed and delivered reporting systems to support business decision-making.

Software Analyst and Developer at Jikkosoft | Oct. 2019 – Feb. 2020

- Developed tax-calculation algorithms aligned with regulatory requirements.
- Designed and implemented public services billing and invoicing systems with robust validations.

Knowledge and Technical Skills

Web & Backend Development

- Python (Django, FastAPI)
- JavaScript / TypeScript (NestJS, Express, React, Next.js)
- REST APIs, GraphQL, Webhooks, WebSockets
- Progressive Web Applications (PWA)
- Relational and NoSQL databases: PostgreSQL, MySQL, Aurora RDS, MongoDB, DynamoDB, Redis
- Emails (SES)

Cloud, DevOps & Infrastructure

- AWS (EC2, Lambda, Containers, Clusters)
- Linux servers, Nginx, Systemd, Journald
- Docker (ECS, ECR)
- CI/CD pipelines (Git, GitLab, Jenkins)
- DNS and domain management
- Cloudwatch observability

Artificial Intelligence & Automation

- Applied AI systems and feature integration
- LLM-based workflows with LangChain and LangGraph
- RAG systems using FAISS and MongoDB
- Self-hosted models with Ollama and GPU configurations
- Computer vision with YOLOv8
- Workflow automation with n8n
- Data analysis, applied statistics, and deep learning with PyTorch

Architecture & Engineering Practices

- Software architecture and design patterns
- Microservices and system orchestration
- Algorithmic complexity analysis
- Test-driven development
- OAuth-based authentication and security
- Technical documentation and OpenAPI specifications

Leadership & Management

- Technical team leadership
- Project planning with agile methodologies
- Objectives and Key Results (OKR)
- Key Performance Indicators (KPI)
- Workflow systematization
- Software Requirements Specification (SRS)
- UML view-based modeling
- Layered and hexagonal architectures
- Data-driven decision making

References

- **My website:** https://www.alejandrocr.co

- **My Github Repository:** https://github.com/virtualitems

- **My Hexagonal Architecture Library:** https://www.npmjs.com/package/tshex-cli

- **My Software development guide:** https://profesionalsoftware.gumroad.com/l/ikmqp