ROMAN EMILIANO ARENAS

Full Stack Developer | Tech Lead | DevOps Engineer

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PROFESSIONAL SUMMARY

Full Stack Developer, Tech Lead, and DevOps Engineer with 7+ years of experience designing and delivering scalable web applications, criminal intelligence platforms, and enterprise ecosystems. Proven expertise in cloud infrastructure (AWS, Azure, GCP), containerization (Docker, Kubernetes), CI/CD pipelines, and microservices architecture. Led the design and development of ICIA (Infraestructura de Inteligencia Criminal y Analitica), a 13-system interconnected platform for criminal data analysis for the Buenos Aires Province public security sector. Strong background in artificial intelligence integration, automation bots, blockchain development, and IoT solutions. Experienced working remotely with international and public-sector teams. Fluent in English (C1) and native Spanish.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python

Frontend Technologies: React, Vue.js, Next.js, React Native, Angular, Redux, Vuex, Webpack, Babel, Chart.js, Leaflet, SASS, LESS, Bootstrap, Tailwind CSS, Material-UI

Backend Technologies: Node.js, Express.js, NestJS, FastAPI, Django, RESTful APIs, GraphQL, Microservices, Serverless Architecture, API Gateway, WebSockets, MCP Server

Database Technologies: PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, Firebase, Prisma, SQLAlchemy, Sequelize, TypeORM

DevOps and Cloud Infrastructure: Docker, Kubernetes, AWS, AWS Lambda, AWS CDK, CloudFormation, Azure, Google Cloud Platform, Jenkins, GitLab CI/CD, GitHub Actions, Terraform, Ansible, Infrastructure as Code

Monitoring and Logging: Prometheus, Grafana, ELK Stack, CloudWatch, New Relic, Datadog, Splunk, Sentry

Testing and Quality Assurance: Jest, Cypress, Selenium, Unit Testing, Integration Testing, End-to-End Testing, Test-Driven Development

Automation and Integration: n8n, Zapier, Python Scripting, Selenium Bots, PyAutoGUI, Webhook Integration, API Integration, OpenAPI

Emerging Technologies: Artificial Intelligence, Machine Learning, LangChain, RAG (Retrieval-Augmented Generation), Vercel AI SDK, Blockchain, Ethereum, Smart Contracts, Internet of Things, Edge Computing

Methodologies: Agile, Scrum, Kanban, DevOps, CI/CD, Test-Driven Development, Microservices Architecture, MVVM, MVC

Version Control and Collaboration: Git, GitHub, GitLab, Bitbucket, Jira, Confluence, Slack

PROFESSIONAL EXPERIENCE

Software Developer | Meetlabs 07/2024 - Present | Lima, Peru (Remote)

- Develop intelligent and autonomous software solutions integrating AI, blockchain, and IoT technologies
- Implement microservices architecture using Node.js, Docker, and Kubernetes for scalable applications
- Build and maintain Xynapse backend: NestJS, TypeScript, PostgreSQL, AWS Lambda, LangChain, TypeORM, AWS CDK, JWT, Sentry
- Design and deploy cloud infrastructure on AWS using Infrastructure as Code principles (CDK, CloudFormation)
- Establish CI/CD pipelines using GitHub Actions, improving deployment efficiency by 40%
- Work with cross-functional international teams in agile development environment

Academic Tutor - Web Technologies | Teclab Instituto Tecnico Superior 10/2023 - 01/2025 | Buenos Aires, Argentina (Remote)

- Taught modern web development technologies including React, Vue.js, Node.js, and full-stack development
- Developed comprehensive curriculum covering HTML5, CSS3, JavaScript ES6+, TypeScript, and responsive design

- Mentored students in practical software development projects and industry best practices
- Created educational content focused on modern development workflows and DevOps practices
- Guided students through version control, testing methodologies, and deployment strategies

Tech Lead - Full Stack and DevOps Engineer | Seguridad Publica - Provincia de Buenos Aires (ICIA) 2017 - Present | Buenos Aires, Argentina (Remote)

- Designed and developed ICIA (Infraestructura de Inteligencia Criminal y Analitica), an ecosystem of 13 interconnected systems for criminal data analysis and public security of Buenos Aires Province
- Built Hermes: criminal intelligence web platform with interactive dashboards for homicides (HOBA module), armed confrontations, stolen vehicles, and police procedures using Next.js, TypeScript, React, Chart.js, Leaflet heat maps, and multi-field filters with CSV, Excel, and PDF export
- Developed Prometheus, Quiron, Cassandra, and Pegasus: Python and FastAPI microservices suite for loading, deep analysis, and querying of criminal incidents, with SQLAlchemy, SQLAdmin, role-based access control, and shared paginated API layer
- Engineered Argo and Argonauta: distributed master-slave bot architecture using FastAPI, WebSockets, MySQL, and Selenium to automate extraction of judicial records and police denunciations from the SID system, with real-time web console and Excel output pipeline feeding Ariadna
- Built Teseo (Django): intelligence system for football security risk management with risk levels (LOW, MEDIUM, HIGH, CRITICAL), geolocated incidents, club conflict ranking, gang intelligence, admission restrictions, and versioned operational plan PDF generation
- Deployed Cerberus (centralized JWT authentication, multi-role system, rate limiting, metrics), Helios (async activity logging microservice), Ariadna (desktop SISEP data processor with integrity pipeline to MySQL using Tkinter and Python), and Hestia (custom Docker container monitor)
- Managed full deployment lifecycle: Docker Hub, GitHub Actions CI/CD pipelines, server provisioning, and container orchestration for the entire 13-system ecosystem

Full Stack Programmer | redUsers 06/2019 - 03/2023 | Argentina (Remote)

- Developed web applications using MVVM architecture pattern with Vue.js and React frameworks
- Built responsive user interfaces with HTML5, CSS3, JavaScript ES6+, and TypeScript
- Implemented RESTful APIs using Node.js and Express.js with PostgreSQL and MongoDB databases
- Maintained and optimized existing applications improving performance by 30%
- Collaborated with remote teams using Git version control and agile methodologies
- Integrated third-party APIs and services for enhanced application functionality

EDUCATION

Teclab Instituto Tecnico Superior
Technical Degree in Programming and Software Development
Specialization: Web Technologies and Software Engineering

Universidad Siglo XXI
Higher Education

CERTIFICATIONS AND CONTINUOUS LEARNING

- AWS Cloud Practitioner (pursuing)
- Docker Containerization
- Kubernetes Orchestration
- CI/CD Pipeline Implementation
- Agile Project Management

KEY ACHIEVEMENTS

- Designed and delivered ICIA, an ecosystem of 13 criminal intelligence systems for Buenos Aires Province public security, active since 2017
- Successfully delivered 15+ web applications and platforms using modern JavaScript and TypeScript frameworks
- Implemented DevOps practices reducing deployment time by 50% across multiple projects

- Led remote development teams and public-sector technical projects across different time zones
- Integrated AI, LangChain RAG, and blockchain technologies in enterprise-level applications
- Mentored 200+ students in web development technologies at Teclab Instituto Tecnico Superior

LANGUAGES

Spanish: Native English: C1 Advanced