

Johel Venegas

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SUMMARY

Software Developer with proven experience in enterprise system modernization and full-stack development. Specialized in migrating legacy applications to modern Java and Python architectures. Experienced in RESTful API design, secure digital signature systems, and cloud-native DevOps practices. Delivered scalable and compliant solutions for regulated industries through backend development, infrastructure automation, and data optimization. Currently deepening expertise with projects in FastAPI, CI/CD, and microservices on AWS.

SKILLS & INTERESTS

Skills: Python, Java, FastAPI, Jakarta EE, Docker, PostgreSQL, Redis, GitHub Actions, AWS, Prometheus, Celery, JWT, XML/XSD, Nginx, Linux, CI/CD, DevOps

EDUCATION

Latin University of Costa Rica

San José, Costa Rica

Bachelor's Degree in Systems Engineering

Graduation Date: Aug 2025

WORK EXPERIENCE

Credecoop R.L.

Software Developer

Jan 2025 - May 2025

- Participated in modernization project migrating legacy Oracle Forms applications to Java-based architecture
- Optimized database queries and data processing workflows, improving overall system performance
- Developed scalable enterprise solutions using Jakarta EE technologies (JSF, JPA, EJB, CDI) and PL/SQL
- Analyzed existing business logic and successfully adapted multiple modules to new architectural framework

PROJECT EXPERIENCE

Freelance Developer

Central Electronic Invoicing API for Costa Rica

Nov 2024 - May 2025

- Architected RESTful API serving 150+ businesses for electronic invoicing compliance with Costa Rica's Ministry of Finance
- Implemented comprehensive tax calculation engine with automatic CABYS validation and secure P12 certificate system
- Built multi-tenant architecture with role-based access control, contingency mode, and automated government API submission
- Developed reporting dashboard with tax calculations and automated purchase receipt processing
- **Tech:** Python, FastAPI, PostgreSQL, Redis, Docker, JWT, XML/XSD, Cryptography, Celery, Nginx

Personal Project | Docker, GitHub Actions, AWS |

DevOps Playground - CI/CD Pipeline (In Progress)

May 2025 - Present

- Designing automated CI/CD pipeline for Python microservices deployment
- Implementing monitoring infrastructure with Prometheus and Grafana
- Configuring containerized deployment workflow with Docker and GitHub Actions
- Building AWS infrastructure setup with centralized logging capabilities
- **Status:** Infrastructure setup complete, working on monitoring integration