Johel Venegas

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SUMMARY

Computer Systems Engineer with experience in enterprise system modernization, distributed systems, and cloud infrastructure automation. Skilled in Linux administration (Ubuntu, Debian), networking fundamentals (TCP/IP, DNS, Nginx as reverse proxy/load balancer), and DevOps practices. Proficient in Python, Java, and Bash scripting for automation, monitoring, and infrastructure management. Delivered scalable and compliant solutions using AWS, Docker, and CI/CD pipelines. Strong communicator (English B2) with proven ability to troubleshoot, debug, and deliver results in large-scale e

SKILLS

Languages: Python, Java, Bash/Shell, C#, JavaScript, PL/SQL, HTML/CSS

Frameworks: FastAPI, Jakarta EE, Spring Boot, React, Next.js

Databases: PostgreSQL, Redis, MySQL, Firestore

DevOps: AWS (EC2, S3, IAM), Docker, GitHub Actions, GitLab, Jenkins, CI/CD, Nginx (reverse proxy, load balancing), Prometheus, Grafana, Linux Systems Administration

Networking: TCP/IP, DNS, Routing, Load Balancing

Operating Systems : Ubuntu 22.04/24.04 LTS, Debian 12, Windows 10/11

Development Tools : Git, Postman, npm, pip, pnpm, JWT, OAuth, XML/XSD

EDUCATION

Latin University of Costa Rica   San José, Costa Rica

Bachelor's Degree in Systems Engineering   _Graduation Date: Aug 2025_

Oracle   In Progress – Expected Oct 2025

Oracle Cloud Infrastructure 2025 DevOps Professional | **_1Z0-1109-25_**

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 - Aug 2025_

- Architected a RESTful API to support electronic invoicing compliance with Costa Rica's Ministry of Finance, used by a diverse range of businesses
- 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
- Implemented automated validation for API requests/responses to ensure compliance and integration reliability.
- Developed reporting dashboard with tax calculations and automated purchase receipt processing
- **Tech:** Python, FastAPI, PostgreSQL, Redis, Docker, JWT, XML/XSD, Cryptography, Celery, Nginx

Fabarpa

Freelance Developer   *2023 - 2023*

- Developed responsive company website using React and Next.js framework
- Implemented modern UI components with server-side rendering capabilities
- Successfully sold and delivered complete website solution to client
  Tech: React, Next.js, JavaScript, HTML/CSS, Vercel

Clínica Dental

Freelance Developer   *May 2024 - Jun 2024*

- Built responsive dental clinic website with appointment booking system and service catalog
- Integrated WhatsApp chatbot for automated patient inquiries and appointment confirmations
- Deployed on Vercel platform with optimized performance and mobile-first design
- **Tech:** React, Next.js, JavaScript, Python, HTML/CSS, Vercel, WhatsApp API

Personal Project | Docker, GitHub Actions, AWS |

DevOps Playground - CI/CD Pipeline   *May 2025 - Jun 2025*

- Designed automated CI/CD pipeline for Python microservices deployment on AWS.
- Implemented monitoring infrastructure with Prometheus and Grafana.
- Configured containerized deployment workflow with Docker and GitHub Actions.
- Built AWS infrastructure setup with centralized logging and alerting capabilities.
- Integrated Nginx as reverse proxy and load balancer to handle distributed traffic.

RECENT PROJECT EXPERIENCE

Intelligent PDF Chatbot - RAG Application   *May 2025 - May 2025*

- Built production-ready RAG pipeline using LangChain, OpenAI API, and FAISS vector database
- Implemented streaming chat interface with citation system for document verification
- Developed full-stack solution with FastAPI backend and React frontend
- Solved complex context limitation challenges through semantic search and embeddings
- Tech: Python, FastAPI, LangChain, OpenAI API, FAISS, React, RAG Architecture

Personal Project

Kubernetes + Terraform Infrastructure on AWS   *Aug 2025 - Sep 2025*

- Designed and deployed a microservices application on AWS EKS using Kubernetes.
- Automated infrastructure provisioning with Terraform (VPC, EC2, IAM, RDS).
- Implemented GitHub Actions pipeline for continuous deployment.
- Integrated Prometheus & Grafana dashboards for monitoring and alerting.
- Secured workloads with IAM roles, Secrets Manager, and TLS termination via Nginx Ingress.
- Documented the entire project with diagrams, scripts, and video walkthroughs to showcase DevOps skills.

LANGUAGES

Spanish: Native

English: B2 (Fluent reading, speaking, and technical communication)