

Daniel Zúñiga Rojas

Full Stack Software Engineer | Backend, Microservices & Cloud-Native Development

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with nearly five years of experience building enterprise cloud applications. My backend work is mostly Python with Flask and Node.js, my frontend work is mostly React with TypeScript, and I usually build within microservices architectures. At IBM, I built backend microservices for an internal cloud platform that manages devices, accounts, and services, handling custom authentication, MongoDB integration, and a daily time-series reporting pipeline, while also contributing to IBM's Fraud and Abuse platforms. Testing is a regular part of how I work, both unit and integration tests, across Python and JavaScript/TypeScript projects, using Jest and Vitest. I've worked across GCP, Azure, and IBM Cloud, with solid CI/CD practice, and I'm currently building up my Kubernetes skills.

EXPERIENCE

IBM

Semi-senior Software Engineer

Heredia, Costa Rica

Dec 2024 – Present

- Own the end-to-end delivery of features across three concurrent IBM Cloud initiatives, the Fraud and Abuse platforms and an internal platform that manages devices, accounts, and services across IBM Cloud, working closely with Product Managers, architects, QA engineers, and fraud analysts throughout development.
- Built backend microservices in Python, using a heavily customized Flask setup, for the internal cloud management platform, including custom authentication and integrations with Softlayer and other internal and external systems.
- Queried MongoDB through HQL, an internal library built specifically for the platform's data-access patterns, and built a microservice that generates time-series dashboards every day for platform reporting.
- Built the platform's frontend in React and TypeScript, including custom Context-based state management.
- Write and maintain automated tests across these projects, unit and integration tests for the Python backend services, and unit tests for the React and Node frontends, first with Jest and later migrated to Vitest.
- Lead UX design for the Fraud and Abuse platforms as the sole UI/UX designer on the team, creating Figma prototypes, defining user flows, and redesigning dashboards, forms, and filtering tools to help analysts work faster.
- Designed and built a complete Fraud Profiles module from concept to production, covering UX design, the React Context architecture, backend APIs, PostgreSQL integration, and validation with stakeholders.
- Contribute to IBM Cloud infrastructure initiatives by configuring deployment pipelines, migrating workloads to OnePipeline, and improving operational workflows.
- Design AI-powered user experiences for fraud prevention work involving large language models, helping shape interfaces for AI-assisted analyst workflows.

West Monroe

Software Engineer II

Remote

Mar 2024 – Nov 2024

- Led the migration of 20+ enterprise applications following a large-scale corporate acquisition, designing CI/CD pipelines and adapting legacy systems to new deployment environments within an aggressive six-month timeline.
- Designed and developed a multi-tenant Angular application to monitor deployment pipelines and application status across enterprise systems, improving operational visibility for engineering teams.
- Built deployment automation from the ground up using Azure DevOps, PowerShell, SSIS, SSRS, and Power BI, reducing deployment times by 25% while increasing deployment reliability.
- Collaborated on critical improvements to enterprise financial systems, helping resolve high-impact issues that prevented multi-million-dollar operational losses.
- Worked across diverse technology stacks, including C#, .NET, JavaScript, Angular, C, and C++, modernizing applications and ensuring successful production migrations.
- Integrated multiple enterprise services, including Stripe, Contentful, Tealium, Braze, Mitek, and Experian, to support payment processing, customer identity verification, analytics, and marketing automation.
- Improved performance of AutoNation's vehicle rental platform by reducing catalog and checkout loading times by 30% through frontend optimization and state management improvements.

EDUCATION

EUDE Business School, Master's Degree • GPA 3.5 Honors

Business Intelligence & Big Data Analytics

Madrid, Remote

Jan 2025 – Nov 2025

Machine Learning | Business Intelligence | Artificial Intelligence | Big Data | Data Analytics | Data Privacy & Compliance

PROJECTS

Webhook Ingestion & Transformation Pipeline (WI-TP)

2026 – Present

Personal Project • Open Source • NestJS • TypeORM • PostgreSQL • Google Cloud Run • Next.js

github.com/DanielGit28/WI-TP

- Built a Node.js and TypeScript backend with NestJS, including a normalized PostgreSQL data model through TypeORM, GitHub OAuth, and HMAC-SHA256 webhook signature verification, then deployed it to Google Cloud Run with automated CI/CD through GitHub Actions.
- Built a companion frontend in React and Next.js that visualizes the live pipeline as an interactive 3D scene, using React Three Fiber.

AI-Powered Travel Recommendation Platform

Jan 2024 – May 2024

Kotlin • Node.js • PostgreSQL • OpenAI GPT-4.5 • WebSockets

- Built a Kotlin Android app with a Node.js backend, including authentication, live chat through WebSockets, and AI-powered recommendations for restaurants, accommodations, attractions, and personalized itineraries, plus trip-sharing. Also integrated the OpenAI GPT-4.5 API and tuned the prompts, token usage, and response times to keep recommendations fast and relevant.

SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Python, SQL, Kotlin, C#, Java

Backend: Python (Flask), Node.js, NestJS, Express.js, Microservices Architecture, TypeORM, REST APIs, GraphQL, PostgreSQL, MongoDB, Django

Frontend: React, Next.js, Angular, React Native, HTML5, SCSS, Responsive Design, WCAG, Figma

Testing: Unit Testing, Integration Testing, Jest, Vitest

Cloud, DevOps, Infrastructure & AI: Google Cloud Platform (GCP), Cloud Run, Azure, Kubernetes, Docker, CI/CD, GitHub Actions, OnePipeline, Jenkins, Git, Claude, Codex, Bob, RabbitMQ, Redis

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900), Microsoft, Sep 2024

Certified Kubernetes Application Developer (CKAD), in progress, expected Sep 2026, Linux Foundation

Kubernetes, Cenfotec University, Jun 2026

LANGUAGES

English, Advanced Spanish, Native