Daniel Alejandro Dominguez Diaz

Senior Full-Stack Engineer · 14+ Years

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// PROFILE

Senior Full-Stack Engineer with 12+ years of experience designing, building, and operating scalable web and mobile applications. Strong background in Ruby on Rails and modern JavaScript frameworks, with deep expertise across backend systems, frontend architecture, APIs, and cloud deployments. Actively building AI-integrated tools and MCP servers for AI agents, published on npm. Extensive experience owning features end-to-end: from system design and API architecture to AWS-based deployments, CI/CD pipelines, and production monitoring.

// CORE STRENGTHS

Backend Engineering: 12+ years with Ruby & Ruby on Rails, building APIs, background jobs, service-oriented architectures, and data-intensive systems. Strong experience with PostgreSQL, performance optimization, and domain-driven design.

Frontend Engineering: Advanced experience with React, React Native, Vue, and Angular, building complex, user-focused interfaces and maintaining large-scale frontend codebases.

API Design & Integrations: Design and implementation of RESTful APIs, third-party integrations, and internal services. API documentation using Swagger / OpenAPI, and contract-driven development.

Cloud & DevOps: Hands-on experience deploying and operating applications on AWS (EC2, ECS/EKS, S3, RDS, CloudWatch), containerization with Docker, and CI/CD pipelines using GitHub Actions / Jenkins.

AI & MCP Tooling: Building MCP (Model Context Protocol) servers and AI-integrated tools published on npm. Experience with OpenAI function calling, LangChain, and multi-platform AI agent integrations (Telegram, WhatsApp, n8n, Zapier).

Quality-Driven Engineering: Strong testing mindset with RSpec, Jest, Cypress, Selenium, and end-to-end automation. Testing is treated as a core engineering practice.

// EXPERIENCE

BioBridge

Jan 2025 – Aug 2026
Remote, US

Sr Full-Stack Engineer

Cardiac remote monitoring platform for clinicians and healthcare providers.

- Led development of cardiac remote monitoring platform for clinicians and healthcare providers
- Designed health status and incident reporting system for real-time patient monitoring
- Built real-time device data ingestion and patient monitoring workflows
- Developed clinician dashboards for actionable health insights

Ruby on Rails · React · Vue · AWS · PostgreSQL · Docker

Acima Credit

Jul 2024 – Jan 2025
Remote, US

Sr Software Engineer

Fintech company focused on lease-to-own and flexible credit solutions, operating at high scale with multiple merchant platform integrations.

- Designed and implemented RESTful APIs consumed by multiple frontend applications and partner systems
- Built and maintained background processing workflows using Sidekiq for financial operations
- Optimized database queries and service performance in a high-traffic production environment
- Deployed and operated services on AWS EKS using Docker and Helm
- Contributed to CI/CD pipelines enabling automated builds, testing, and deployments

Ruby on Rails · PostgreSQL · Sidekiq · REST APIs · Docker · Kubernetes (EKS) · AWS · Helm

2U
Sr Software Engineer
Jul 2021 – Jul 2024
Remote, US

Publicly traded leader in education technology, recognized for expansive and innovative online learning platforms.

- Built reporting tool connecting Zoom and Canvas for student and teacher participation statistics
- Developed QA automation scripts for grading, notes, and assessments with Cypress and Nightwatch
- Deployed CSV reporting tool to AWS Lambda triggered by events, output to Google Drive
- Created Ruby on Rails API for content summarization using OpenAI integration
- Developed Python API for TEDx organization automating subtitle translation across multiple languages

Ruby on Rails · Python · Django · Node.js · Go · AWS · Kubernetes · Docker

HP
Full Stack Developer
Nov 2020 – Jul 2021
Remote, US

- Worked on backend development of HP's online shop CMS to manage and update web pages
- Built and maintained features using Ruby on Rails with robust RSpec testing
- Managed user permissions with CanCanCan and database operations with PostgreSQL
- Integrated Rails Admin for streamlined content management

Ruby on Rails · RSpec · PostgreSQL · CanCanCan · Rails Admin

Admios (for Anaplan)
Front-End Web Developer
Apr 2020 – Nov 2020
Remote, US

- Led frontend development for Anaplan.com with pixel-perfect, responsive UI across web, mobile, and tablets
- Built web components with React and mobile apps with React Native for Android and iOS
- Implemented rigorous testing with Jest and Karma, developed UI components with Storybook
- Deployed mobile apps using Expo ensuring cross-platform consistency

React · React Native · Jest · Karma · Storybook · Expo

Digitas
Full Stack Engineer
Mar 2019 – Mar 2020
Buenos Aires, Argentina

- Led development of web application generating KPIs and marketing segmentation for clients like P&G
- Built application using Ruby on Rails and Angular 6 with microservices architecture on AWS
- Managed backend processes with PostgreSQL and ensured code quality with RSpec and Jest
- Employed Docker for containerization in microservices deployment

Ruby on Rails · Angular 6 · TypeScript · PostgreSQL · AWS · Docker · RSpec · Jest

GlobalLogic (for Everfi)
Sr Ruby Engineer
Nov 2018 – Mar 2019
Buenos Aires, Argentina

- Worked on Everfi.com account focusing on backend development and system architecture
- Leveraged Ruby on Rails with comprehensive RSpec testing and Swagger for API documentation
- Integrated AWS services, Apache Kafka for messaging, PostgreSQL and Elasticsearch
- Employed Docker for containerization in Agile development environment

Ruby on Rails · RSpec · Swagger · AWS · Apache Kafka · PostgreSQL · Elasticsearch · Docker

Globant (for Salesforce)
Full Stack Developer
Jul 2018 – Nov 2018
Tucuman, Argentina

- Contributed to development of internal reporting tool for the Salesforce.com account
- Built responsive user interfaces with React and integrated Express.js backend services

React · Express.js · Node.js

BillSync
SSR Fullstack Developer
Jul 2014 – Jul 2018
Remote

- Developed comprehensive web application for accounting startup using Angular.js and Ruby on Rails
- Integrated API services from QuickBooks, Xero, and Clover accounting platforms
- Built robust and scalable application streamlining accounting processes
- Delivered high-performance solution improving financial operations automation

Ruby on Rails · Angular.js · QuickBooks API · Xero API · Clover API

Insignia4u

Feb 2012 – Jun 2014
San Miguel de Tucuman, Argentina

Jr Fullstack Developer

- Developed and maintained responsive web applications using HTML, CSS, JavaScript, jQuery, Ruby on Rails, Angular 1
- Collaborated with cross-functional teams to design and implement new features

Ruby on Rails · JavaScript · jQuery · Angular 1 · HTML · CSS

// TECHNICAL SKILLS

Ruby on Rails · React · React Native · Vue · Angular · Node.js · TypeScript · Python · Go · PostgreSQL · Redis · Elasticsearch · AWS · Docker · Kubernetes · CI/CD · REST APIs · GraphQL · RSpec · Jest · Cypress · Sidekiq · Apache Kafka · MCP (Model Context Protocol) · OpenAI · LangChain

// FEATURED PROJECTS

// OPEN SOURCE

dan1d.dev dan1d/dan1d.dev
This portfolio — an open-source 3D portfolio built with Next.js and React Three Fiber.

py_bridge dan1d/py_bridge
Call Python functions from Elixir over stdin/stdout using JSON-RPC 2.0. Zero dependencies. Supervisor-friendly. Crash-resilient.

omniauth-clover-oauth2 dan1d/omniauth-clover-oauth2
OmniAuth strategy for Clover POS OAuth 2.0 with TokenClient for easy token refresh (OmniAuth 2.0+ compatible).

clover_sandbox_simulator dan1d/clover_sandbox_simulator
Ruby gem for simulating realistic restaurant POS operations in Clover sandbox environments. Generate orders, payments, and transactions for testing.

omniauth-freshbooks-oauth2 dan1d/omniauth-freshbooks-oauth2-modern
OmniAuth OAuth2 strategy for FreshBooks with multi-business support, JSON token exchange, and single-use refresh token handling.

omniauth-quickbooks-oauth2 dan1d/omniauth-quickbooks-oauth2-modern
OmniAuth strategy for QuickBooks Online OAuth 2.0 with TokenClient for easy token refresh (OmniAuth 2.0+ compatible).

omniauth-xero-oauth2 dan1d/omniauth-xero-oauth2-modern
OmniAuth OAuth2 strategy for Xero with multi-tenant support, OpenID Connect, and token refresh (OmniAuth 2.0+ compatible).

@dan1d/dolar-mcp dan1d/dolar-mcp
MCP server for Argentine exchange rates — real-time dollar blue, oficial, MEP, CCL, crypto rates via DolarAPI. Currency conversion and spread calculator for AI agents. No API key required.

@dan1d/mercadolibre-mcp dan1d/mercadolibre-mcp
MCP server for MercadoLibre marketplace — search products, browse categories, trends across 18 LATAM countries. No API key required for public endpoints.

HackTheInterview dan1d/hacktheinterview
AI-powered real-time interview assistant — transcribes interviewer questions and generates suggested answers in real-time.

codeprism-cli dan1d/codeprism-cli
CLI for indexing codebases and pushing knowledge cards to a CodePrism engine.

epos_now_client dan1d/epos_now_client
Ruby client for the Epos Now POS API (V4). Basic Auth, pagination, 10 resources, 100% test coverage.

lbry-api-ruby dan1d/lbry-api-ruby
Ruby wrapper for LBRY and LBRYcrd APIs.

omniauth-doordash-oauth2 dan1d/omniauth-doordash-oauth2
OmniAuth strategy for DoorDash using JWT authentication.

omniauth-gusto-oauth2 dan1d/omniauth-gusto-oauth2
OmniAuth OAuth2 strategy for Gusto payroll.

omniauth-lightspeed-oauth2 dan1d/omniauth-lightspeed-oauth2
OmniAuth OAuth2 strategy for Lightspeed Restaurant (K-Series).

omniauth-uber-eats-oauth2 dan1d/omniauth-uber-eats-oauth2
OmniAuth OAuth2 strategy for Uber Eats.

omniauth-wave-oauth2 dan1d/omniauth-wave-oauth2
OmniAuth OAuth2 strategy for Wave (by H&R Block).

epos_now_sandbox_simulator dan1d/epos_now_sandbox_simulator
Ruby gem for simulating POS operations against the Epos Now V4 API. Generates realistic orders, payments, and transactions for sandbox testing.

heartland_sandbox_simulator dan1d/heartland_sandbox_simulator
Heartland Genius Restaurant POS sandbox simulator for SalesToBooks integration testing.

lightspeed_sandbox_simulator dan1d/lightspeed_sandbox_simulator
Lightspeed K-Series POS sandbox data simulator for development and testing.

skytab_sandbox_simulator dan1d/skytab_sandbox_simulator
SkyTab (Shift4) POS sandbox simulator for SalesToBooks integration testing.

square_sandbox_simulator dan1d/square_sandbox_simulator
Generate realistic POS data in Square sandbox — orders, payments, catalog, customers, refunds. Ruby gem with CLI + programmatic API.

// RAILS CORE CONTRIBUTIONS

Raise UnknownPrimaryKey for destroy_async without PK rails/rails/pull/56616
Early guard in has_many/has_one dependent: :destroy_async to raise clear error when associated model lacks a primary key.

Raise UnknownPrimaryKey for writes without primary key rails/rails/pull/56614
PK check in _update_record/_delete_record — raises UnknownPrimaryKey instead of generating invalid SQL.

// VOLUNTEERING

LBRY Protocol
Aug 2018 – Aug 2020

Open Source Contributor

Remote, US

Developed and maintained an official Ruby API wrapper for the LBRY blockchain protocol, enabling developers to interact programmatically with the LBRY network.

- Designed clean, idiomatic Ruby SDK to abstract low-level LBRY API calls
- Implemented request handling, response parsing, and error management
- Contributed production code via merged PRs across desktop (Electron/React), mobile (React Native), and shared Redux modules
- Collaborated through code reviews in distributed open-source environment

Ruby · REST APIs · JSON-RPC · React · React Native · Redux

// LANGUAGES

Spanish — Native **English** — Professional