

PROFILE

Software Engineer with over 6 years of experience in backend development, microservices architectures, technical leadership, and mentoring. Highly adaptable to any technology environment. Specialist in Node.js, TypeScript, Express, NestJS, Java, and cloud-based CI/CD pipelines. Strong background in payment processing, electronic invoicing, high-traffic platform migrations, and building solutions for e-commerce, enterprise events, fuel industry, real estate, and financial sectors.

WORK EXPERIENCE

DaCodes

Software Engineer (Backend)

Ago 2024 - Present

Contributed to the design, development, documentation, migration, and scaling of a high-traffic enterprise portal, evolving from a monolithic architecture to microservices. Developed multiple RESTful APIs with NestJS for mobile applications. Strong focus on modular backend, payment processing, automated testing, and software quality, actively participating in CI/CD pipelines on AWS production environments:

- Remediated up to 100% of security vulnerabilities using SonarQube and Fortify for quality and security analysis
- Migrated and scaled microservices using TypeScript, Node.js, Express, and NestJS
- Developed production-ready RESTful APIs with NestJS on AWS
- Automated unit tests (Jest) and end-to-end tests (Cypress)
- Managed relational databases using PostgreSQL and TypeORM
- Built SPA components with TypeScript, JavaScript, React, Resumable.js, and WebSockets
- Optimized payment workflows in Stripe using CRON jobs for payment updates
- Produced technical documentation and managed requirements using OpenProject
- Collaborated closely with cross-functional teams including PMs, UX/UI, MQ, CRM, SAP, and business stakeholders to align technical and business requirements
- Actively participated in CI/CD pipelines and service deployments using GitFlow with Git, GitLab/GitHub, Jenkins, Docker, Nginx, and AWS EC2

Prointernet MX

Senior Backend Developer / Technical Lead & Mentor

Jun 2019 - Jun 2024

Led the development of custom web applications for e-commerce (B2C/B2B), enterprise events, and fuel management systems. As a Fullstack/Backend Developer and Technical Mentor, focused on legacy system migrations and the design of scalable, high-traffic RESTful APIs with integrated payments and electronic invoicing under high-security standards:

- Remediated up to 90% of vulnerabilities detected by tools such as Tenable
- Designed and modeled databases using SQL Server and MySQL (DDL/DML)
- Implemented payment processing with BBVA, Banorte, Clip, and PayPal
- Implemented electronic invoicing (CFDI 3.3 and 4.0) using RealVirtual (PAC)
- Developed ETL processes using MSSQL Bulk and Node.js (CRON jobs)
- Built persistent shopping carts and real-time updates using WebSockets
- Developed pre-registration modules with React.js and payment processing using Clip and Webhooks
- Implemented access control using QR and NFC
- Developed online/offline check-in modules using Electron.js
- Created dashboards using JavaScript, React.js, and Google Charts
- Designed secure REST APIs using JavaScript, TypeScript, TypeORM, JWT, and RSA/RS256
- Developed transportation management systems (TMS) and POS modules using JavaScript, React.js, and Electron.js
- Managed repositories with Git, GitHub, and deployments on Azure

Grupo Crea

Backend Developer – Digital Radio Mobile Application

Feb 2022 - May 2022

Worked as a Backend Developer and technology consultant, leading the development of a real-time streaming mobile application, integrating broadcasting services, scalable backend, and digital solutions:

- Designed and implemented RESTful APIs and event-driven systems for digital radio streaming, advertising campaigns, content generation (blog), and advertising banners
- Developed backend services using JavaScript, TypeScript, Node.js, and Express
- Deployed, operated, and maintained services on DigitalOcean, Nginx, Git, and GitHub

EDUCATION AND TRAINING

Tecnológico Nacional de México / TecNM

Bachelor’s Degree in Computer Systems Engineering

Jun 2015 - Jun 2019

- Software Engineering with a strong technical foundation in Java SE (7, 8, and 11), object-oriented programming, and systems design. Experience in developing backend solutions, mobile applications, and data management in production environments, using relational and NoSQL databases.

TECHNICAL SKILLS:

Backend: Node 18 - 24 LTS, TypeScript, Express, NestJS, Java

Databases: SQL Server, PostgreSQL, MySQL, MongoDB

Cloud & DevOps: AWS (EC2, EBS, Lightsail), Docker, CI/CD, Jenkins, DigitalOcean

LANGUAGES: Spanish: Native | English: Intermediate (A2 / B1 – reading & technical documentation)

Testing & Security: Jest, Cypress, SonarQube, Fortify

Frontend: React, TypeScript, JavaScript

Tools: Git, GitHub, GitLab, Postman, PM2, NVM, Nginx

PROJECTS

Microservices : <https://danielcl01.github.io/portfolio/monolito-to-microservices/>  
RESTful APIs: <https://danielcl01.github.io/portfolio/restful-apis-with-nestjs/>  
Billing Systems: <https://danielcl01.github.io/portfolio/billing-and-automation/>  
Legacy Migration: <https://danielcl01.github.io/portfolio/asp-classic-to-node/>  
Enterprise Events Platform: <https://danielcl01.github.io/portfolio/events/>  
E-Commerce: <https://danielcl01.github.io/portfolio/ecommerce/>  
Digital Radio Streaming App: <https://danielcl01.github.io/portfolio/digital-radio/>  
Meta / INFOTEC: Data Science with AI (In Progress)  
TecNM: Data Analysis and Statistics with Python

CERTIFICATIONS & TRAININ

AWS Certified Cloud Practitioner & Developer (In Progress)  
DaCodes: Client-Facing Training | Intelligent Communication Training  
Scrumstudy: Scrum Fundamentals Certified  
Platzi: Advanced TypeScript  
Platzi: Java OOP and Data Structure