

Víctor Daniel Calderón López

Software Engineer (Backend) | Node.js | TypeScript | Microservices | AWS | Payments

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PROFILE

Senior Software Engineer with 6+ years of experience in backend development and microservices architectures. Specialized in Node.js, TypeScript, Express, and NestJS, with a strong focus on payments systems, billing platforms, fintech solutions, and high-traffic applications. Proven experience working in cloud environments (AWS, DigitalOcean), implementing CI/CD pipelines, and collaborating with multidisciplinary remote teams.

WORK EXPERIENCE

DaCodes | Yucatán | Home office Ago 2024 - Presente

Sr. Software Engineer

Participated in the design, migration, and scaling of an Enterprise Financial Portal (Fintech, Mortgage Lending) and in the development of a Music & Entertainment Events Web Application, both based on microservices architecture with strong focus on backend development, payments, and billing:

- Led the migration from monolithic architectures to microservices, designing UML/BPM workflows and authoring technical documentation. Strengthened web application security, successfully remediating up to 98% of detected vulnerabilities. Performed code quality and security analysis using SonarQube and Fortify.
- Developed microservices and RESTful APIs using TypeScript, Node.js, Express, and NestJS, applying software design patterns. Designed data models and managed relational databases using PostgreSQL and TypeORM.
- Integrated web modules using JavaScript, React, and TypeScript. Implemented and optimized payment flows with Stripe, including billing and transaction processing.
- Built background processes with CRON Jobs for payment status updates and asynchronous workflows.
- Automated unit testing (Jest) and end-to-end testing (Cypress), including design and execution of functional test plans. Actively contributed to CI/CD pipelines and deployment processes using GitFlow, Git, GitLab/GitHub, Jenkins, Docker, and AWS EC2.
- Collaborated closely with multidisciplinary teams, including MQ, CRM, SAP, and business stakeholders, ensuring proper alignment between technical requirements and business objectives.

Prointernet MX | Tamps. | On-Site Jun 2019 - Jun 2024

Backend Developer | Team Leadership & Mentorship

Contributed to the development of E-Commerce platforms (B2C/B2B), Event Management Systems (EventTech solutions), and a Logistics Management System, focused on high-traffic environments, payment integration, online invoicing, security, and scalable architectures. Provided technical mentorship and team support.

- Designed and modeled databases using SQL Server and MySQL (DDL/DML).
- Integrated payment gateways including 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 and payment modules with Clip, including reconciliation via Webhooks.
- Implemented access control systems using QR and NFC technologies.
- 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 parcel and logistics management systems (TMS) and POS modules using JavaScript, React.js, and Electron.js. Remediated up to 100% of vulnerabilities detected by tools such as Tenable.
- Implemented security policies including CSP, Permissions-Policy, Cache-Control, among others.
- Managed repositories using Git and GitHub, and performed deployments on Azure.

Grupo Crea | Tamps. | Home office Feb 2022 - May 2022

Backend Developer – Digital Radio Mobile Application

- Designed and implemented RESTful APIs for live streaming, news publishing, and advertising management features.
- Developed backend services using JavaScript, TypeScript, Node.js, and Express.
- Deployed, operated, and maintained services on DigitalOcean, using Git and GitHub for version control and collaboration.

EDUCATION AND TRAINING

Instituto Tecnológico de Ciudad Madero / TecNM Jun 2015 - Jun 2019

Bachelor's Degree in Computer Systems Engineering

- 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

Testing & Security: Jest, Cypress, SonarQube, Fortify

Frontend: React, TypeScript, JavaScript

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

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

CERTIFICATIONS & COURSES: Training Client Facing | Sell like a DaCoder | Scrum Fundamentals Certified | Training Comunicación Inteligente | AWS Certified Cloud Practitioner And Developer (In progress)