

Carlos Martinez Ival

Senior Software Engineer

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Professional Summary

Software Engineer with extensive experience in cloud technologies and backend development, specializing in building scalable REST APIs and clean, maintainable architectures. Skilled in designing CI/CD pipelines, automation workflows, and comprehensive automated testing. Strong foundation in Data Structures, Algorithms, Design Patterns, Software Architecture, and System Design.

Technical Skills

Languages: Python, C++, Java, JavaScript, TypeScript, PHP

Frameworks: NestJS, Express, FastAPI, Vue 3, React, React Native, LangChain

Databases: MongoDB, PostgreSQL, MySQL, LDAP, Atlas Vector Search, Elasticsearch

DevOps & Cloud: Docker, Jenkins, AWS, GCP, GitHub Actions, DigitalOcean, Proxmox

Testing: Jest, Mocha, Chai, Sinon

Tools: Git, GitHub, GitLab, Kibana, Grafana, VLLM, Linux, LangFuse

Professional Experience

Senior Software Engineer

Galaíta Labs

December 2024 – Present

- Developed agentic applications using AI/ML models and deployed them to self-hosted environments.
- Implemented OCR-based data extraction pipelines.

Senior BackEnd Developer

Unidad Editorial (through Alten)

December 2022 – August 2024

- Developed a REST API for content ingestion from external sources into CMS platforms such as Marca.com and ElMundo.es.
- Implemented clean, hexagonal architecture using NestJS to improve scalability and maintainability.
- Automated testing with Jest, increasing test coverage and significantly reducing production errors.

Senior FullStack Developer

Evvo Home Europe

November 2021 – November 2022

- Developed a Shopify application to process installment payments with Pepper Finance, increasing sales by 15%.
- Implemented the backend using NodeJS, Express, TypeScript, and MongoDB for optimal performance and scalability.
- Configured CI/CD pipeline with GitHub Actions and Docker for reliable production deployments.
- Ensured software quality through unit and end-to-end testing using Mocha/Chai and Sinon.
- Designed system architecture and managed all service deployments on DigitalOcean.
- Performed Frontend tasks in Vue3 + TailwindCSS for the online store.

Developer and Functional Analyst

Bilbomatica

March 2021 – October 2021

- Developed mobile applications with React Native for GPS route tracking.
- Developed applications in Drupal and managed Apache servers on Linux.
- Coordinated with Product Owner and Product Manager for defining functional and non-functional requirements.

Backend Developer

Overseas Teach Services

March 2019 – February 2021

- Developed the OnlineNannies mobile app using React Native to connect nannies with clients.
- Built the backend with NodeJS and MySQL, implementing authentication, Stripe and PayPal payments, and user geolocation.
- Designed the system architecture and managed all service deployments on AWS.

Programmer / SysAdmin

Alimatic

January 2014 – January 2017

- Analyzed, designed, and implemented custom web applications with LAMP Stack and Symfony to optimize internal process management.
- Administered Virtualization Environments with Proxmox, ensuring high availability, security, and resource optimization.

Education

Software Engineering

Instituto Superior Politécnico José Antonio Echeverría (CUJAE)

Certifications

- CS50's Introduction to Artificial Intelligence with Python – Harvard University (2024)
- Functional Programming with Plutus/Haskell – European Business University (2022)
- EFSET English Certificate – C2 Proficiency – EF Standard English Test (2022)