Carlos Villafuerte Díaz

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Professional Summary

Full Stack Software Engineer with 6+ years of experience building performant, scalable, and secure web applications. Proven track record delivering end-to-end solutions using modern technologies including React.js, Node.js, TypeScript, JavaScript. Skilled in designing and optimizing data-driven dashboards and micro frontends with measurable performance gains. Adept at working in cross-functional agile teams, contributing to product vision, and coordinating with infrastructure, product, and design stakeholders. Known for enhancing UX performance by up to 30% and reducing frontend bundle size by 40% through modularization and lazy loading.

Technical Skills

- Programming Languages: JavaScript and TypeScript, Node.js, (Basic): Python, Java
- Frontend: React.js, Next.js, Vite, HTML5, CSS3
- Backend: REST APIs, Express
- Databases: PostgreSQL, MongoDB,
- Tools and Platforms: Docker, Git (Gitlab and GitHub), Figma, Jira, Octane
- Architecture: Micro Frontends, CI/CD pipelines, Performance tuning
- Cloud: Experience integration with cloud-based system (AWS basics)

Professional Experience

OpenText
Software Engineer II
2023 – 2025

- Developed and maintained web applications using JavaScript and modern frameworks.
- Actively participated in the full software development lifecycle, exposure to attend daily scrum calls and deliver works as per the stories planned, work with other scrum team members and product team.
- Experienced in agile projects, collaborated with cross-functional teams to deliver business-aligned solutions.
- Working on the frontend development of a system, driving the architecture and implementation of scalable, high-performance applications. I play a key role in problem-solving, proposing innovative solutions, and delivering high-quality features under tight deadlines and high-pressure environments.
- Micro frontend Architecture: Designed and implemented a micro frontend-based system, ensuring modularity, scalability, and seamless integration across multiple teams.
- Modern Frontend Development: Built complex user interfaces using React.js, Next.js, and modern state management solutions like Valtio for reactivity and Context API from React.
- Closely collaborated with backend, security, PMs, and DevOps teams to align with system-wide goals.

Micro Focus
Fullstack Software Engineer
2019 – 2023

- Led the successful migration of a legacy frontend from AngularJS to jQuery to resolve licensing conflicts and mitigate technical debt due to end-of-life support.
- Designed and implemented a new licensing system, capable of tracking and aggregating product event usage for statistical analysis and compliance purposes.
- Developed backend functionalities in Java 8, applying object-oriented principles such as abstraction, inheritance, polymorphism, and leveraging streams and functional interfaces for efficient data handling.
- Contributed to systems with a distributed architecture, using a peer-based methodology to execute parallel queries and display consolidated metrics in real-time dashboards.
- Participated in cross-functional teams across multiple integrated systems, following a modular architecture approach ("Lego-style") to enhance reusability and reduce coupling.
- Conducted unit and integration testing to ensure software reliability and performance across releases.
- Diagnosed and resolved critical bugs, implemented hotfixes under production pressure, and improved long-term maintainability.
- Worked in agile environments, collaborating closely with QA, security, and infrastructure teams to deliver high-quality features on time.
- Supported security audits by helping identify and prevent software vulnerabilities, ensuring compliance with internal and industry standards.
- Delivered consistent contributions across multiple product lines over 4.5 years of continuous development.

Micro Focus
Internship
2018 – 2019

- Worked in the security department focusing on vulnerability detection and prevention.
- Completed a specialty internship to qualify for the Systems Engineering degree.

Education
Cenfotec
Master´s Degree in Computer Engineering focus on AI (2025– 2027)

Tecnológico de Costa Rica
Bachelor's Degree in Computer Engineering (2015 – 2018)

Colegio Técnico Professional de Los Chiles
High School Diploma (2009 – 2014)

Certification
Python
Id: UC-b95e5163-c1d4-4c57-bb04-a1f2ac7afa04/

Etic Hacking
Id: UC-1ec8269b-ac2d-4589-a7ea-f4e7314dc2f4/