

Carlos Villafuerte Díaz

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GitHub: <https://github.com/cavidev> LinkedIn: <http://linkedin.com/in/carlosmariovillafuerte>

Portfolio: <https://cavidev.github.io/reactjs-v18/>

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 with TypeScript and JavaScript. Skilled in designing and optimizing data-driven dashboards and microfrontends 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: (Mid): JavaScript and TypeScript, Node.js, (Junior): 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, Jenkins
- Architecture: Microfrontends, Monorepo, CI/CD pipelines, Performance tuning
- Cloud: Experience integration with cloud-based system (AWS basics)

Professional Experience

OpenText

Software Engineer II | Jan 2023 – Apr 2025

- Developed and maintained web applications using TypeScript 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.
- Microfrontend Architecture: Designed and implemented a microfrontend-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 | Mar 2019 – Dec 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.

Internship | Set 2018 – Mar 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 | Jan 2025 – Dec 2027

Tecnológico de Costa Rica

Bachelor's Degree in Computer Engineering | Jan 2015 – Set 2018

Colegio Técnico Profesional de Los Chiles

High School Diploma | Jan 2009 – Dec 2014

Certification

Python

Id: [UC-b95e5163-c1d4-4c57-bb04-a1f2ac7afa04/](#)

Etic Hacking

Id: [UC-1ec8269b-ac2d-4589-a7ea-f4e7314dc2f4/](#)