
John Jader Marulanda Valero

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Objective

Front-End JavaScript Developer with a strong foundation in React, Vue.js, and modern web technologies, combining technical proficiency with a passion for user-centered design, accessibility, and performance. Currently completing a Systems Engineering degree at Universidad del Valle, I've built scalable web applications that handle critical transactions, and I'm actively leading a Human-Computer Interaction project that integrates frontend, backend, and machine learning components.

I specialize in crafting responsive, accessible, and optimized user interfaces using HTML, CSS, JavaScript, and TypeScript, with frameworks such as Vue.js, React, and Next.js, and build tools like Vite and Webpack. My workflow includes testing (unit/integration), code reviews, and cross-functional collaboration aligned with SDLC best practices.

I am passionate about innovative technologies, including cloud-native architecture (AWS), backend integration (FastAPI, Node.js), and open-source tools. With hands-on experience in academic and freelance settings, I bring a proactive, curious, and adaptable mindset, ready to contribute to impactful solutions.

Education

Universidad del Valle.

Tuluá, Colombia

10th Semester (Last year) - Bachelor of Science in Systems Engineering. GPA [3.0]

Graduation Date: 2025

Relevant Coursework: Web Applications Development, Software Development I & II, Algorithm Design & Analysis, Database Management, Computer Networks & Wireless Technologies, Artificial Intelligence, Project Management & Evaluation, Software Testing & Quality Assurance, Computer Graphics, Systems Architecture.

Job & Project Experience

University Teaching Assistant & Support Monitor

Universidad del Valle | 2+ years

- Mentored students and provided technical assistance across academic projects and tools.
- Managed program logistics and inventory systems to ensure smooth operations.
- Designed promotional graphics and marketing materials for academic initiatives.
- Maintained documentation and archive systems, ensuring data integrity and accessibility.

Frontend Development & UI/UX Design

Freelancer & University Projects | 2021 – Present

- Built responsive web apps using Vue.js, Angular, React, TailwindCSS, and TypeScript.
- Developed betting and POS platforms with attention to security and fraud prevention.
- Ensured accessibility and performance compliance across browsers and devices.
- Managed client communications and remote project delivery as a freelancer.

Real-time hand gesture recognition system prototype for human-computer interaction Project Lead

Current University Project | 2024 – 2025 | gest-os.vercel.app

- Led development of cross-platform app using Electron, React, Python (FastAPI, OpenCV, MediaPipe).

- Integrated full-stack features from UI/UX to backend gesture detection logic.
- Conducted real user testing and ensured accessibility compliance (WCAG).
- Optimized system performance for real-time interaction and accuracy.

Mobile Application Development - Readya (Reading Management App)

University Project - Team Lead

- Led native Android development in Kotlin for e-book tracking and analytics.
- Designed user experience features, including notifications and reading goals.
- Built secure authentication and encrypted data management systems.
- Optimized performance for smooth use across low-end and high-end devices.

AI Algorithm Implementation & Game Development

Team Lead

- Implemented and optimized Uniform Cost Search and Minimax algorithms.
- Built real-time strategy games with dynamic interfaces and user interaction.
- Applied AI logic to enhance gameplay and decision-making systems.
- Conducted quality assurance through testing and peer reviews.

Customer Service & Design Specialist

Part-time

- Delivered bilingual customer service in fast-paced retail environments.
- Designed marketing materials and brand visuals for promotions.
- Supported day-to-day shop operations and customer engagement strategies.
- Collaborated with teams to ensure an excellent client experience

Skills & Interests

Technical Skills

- **Core Web Technologies:** HTML5, CSS3, JavaScript (ES6+), TypeScript
- **Frontend Frameworks & Libraries:** React, Next.js, Vue.js, Angular, Redux
- **Styling & UI Development:** Tailwind CSS, Sass, responsive design, WCAG AA accessibility, ARIA roles
- **Backend & API Development:** Python, Golang, SQL, NoSQL, RESTful APIs
- **Mobile & Hybrid Development:** React Native, Java (Android), Kotlin, Electron
- **Tooling & DevOps:** Git, Gitlab, GitHub, Webpack, Vite, Git-based CI/CD workflows, Agile methodologies, AWS, Kubernetes
- **Testing & Quality Assurance:** Jest, React Testing Library, end-to-end testing tools, code reviews, debugging and error tracking
- **Performance & Optimization:** Web performance tuning, SEO basics, user analytics, Lighthouse audits
- **UX & Design Collaboration:** Figma, Adobe Creative Suite, user-centered design principles