CARLOS ARTEAGA

FULL STACK WEB DEVELOPER | REACT, NODE.JS & IOT SOLUTIONS

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LinkedIn **GitHub**

PROFESSIONAL PROFILE

Full Stack Developer with over 3 years of experience building scalable web applications and high-performance SaaS platforms. Specialized in the React/Astro ecosystem for accessible interfaces and Node.js/PostgreSQL for robust backend architectures. My background as a Biomedical Engineer provides a unique analytical mindset for leading complex technological solutions in sectors such as healthcare and IoT. Oriented toward metric optimization (Core Web Vitals) and delivering user-centric products.

PROFESSIONAL EXPERIENCE

Full Stack Developer | Biomanage (Proprietary SaaS)

Feb. 2026 - Present

- Built the end-to-end architecture (Frontend and Backend) of a SaaS platform for the metrological control of biomedical equipment using React, TypeScript, Node.js, and PostgreSQL.
- Implemented a dynamic certificate generation and traceability system via QR code verification, optimizing real-time operational management.
- Designed and deployed containerized API and database infrastructure with Docker, ensuring a scalable and high-availability environment.

Frontend Developer | Beacons IoT Technologies (Enlace Azul)

Nov. 2025 - Present

- Developed the user interface for IoT asset monitoring (BLE technology) using React, TypeScript, and Tailwind CSS, currently in production with active clients.
- Integrated product viewers and technical specifications for gateways and beacons, elevating user interactivity and retention on the platform.
- Optimized REST API consumption and refactored the authentication module, achieving smooth and secure performance across both web and mobile environments.

Web Developer | Turkano

Jan. 2026 - Feb. 2026

- Developed a gamified web-app featuring 7 interactive chapters and a promotional landing page using Astro and Tailwind CSS, deployed via AWS Amplify.
- Achieved perfect metrics (100/100) in Lighthouse by optimizing overall performance and Core Web Vitals during the massive album launch.

Freelance Frontend Developer | Beacons IoT & Other Brands

Mar. 2023 - Jan. 2025

- Led the creation of visually impactful corporate landing pages and responsive websites, managing continuous deployment workflows with Git and GitHub.

Frontend Developer (Oracle APEX) | The Masters SAS **Aug. 2023 - Dec. 2024**

- Implemented responsive interfaces for an enterprise marketplace, strictly aligning CSS styles with the corporate visual identity.
- Collaborated directly with UX/UI and backend teams to optimize user flows and reduce operational friction.

Android Developer (Intern) | Tech Medic (Código Azul) **Jan. 2021 - Jul. 2021**

- Developed a native Kotlin app integrated with Arduino (IoT) to trigger physical alarms and send real-time push notifications during hospital emergencies, reducing medical response times.

FEATURED PROJECTS

Personal Portfolio (carlosarteaga.dev): Developed with Astro, React, and Tailwind CSS; achieving 100/100 metrics in SEO and accessibility on Lighthouse. Deployed on Cloudflare.

The Master SAS (corporate website): Built with Astro, JavaScript, and Tailwind CSS, with a technical architecture strongly oriented toward SEO and Core Web Vitals optimization.

TECHNICAL SKILLS

Frontend:	React, TypeScript, Astro, JavaScript (ES6+), Tailwind CSS, HTML5/CSS3, Sass, Vite, Bootstrap, Material UI.
Backend & Data:	Node.js, Express, REST API, PostgreSQL, MySQL, Supabase.
Tools & Cloud:	Git, GitHub, Docker, AWS Amplify, Cloudflare, Netlify, Adobe XD.
Other Languages:	Kotlin (Android), Python (currently learning).
Languages:	Spanish (Native), English (Technical / Reading and Documentation).

EDUCATION

Biomedical Engineering
Institución Universitaria ITM (2016-2021)

Machine Learning with Python
Institución Universitaria ITM (2019)

CERTIFICATIONS

10 JavaScript Projects for Portfolio
Udemy (Feb. 2026)

Node.js Development: Application and Security
Udemy (Dec. 2025)

MySQL from Zero to Supabase
Udemy (Nov. 2025)

Master in CSS (Responsive, SASS, Grid)
Udemy (Jun. 2023)

Professional JavaScript Course
Código Facilito (Apr. 2023)