

JUAN CARLOS VALERIO BARRETO

Software Engineer

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With over 8 years of experience as a Software Engineer, expertise spans across web and mobile domains, harnessing frameworks like Angular, Vue, React, Next.js, Nuxt.js, and React Native. Proficiency in Python and Node.js has enabled seamless backend support for a variety of projects, including real-time server visualizations, tools for the scientific community, and digital banking modules, often utilizing technologies such as GCP, Firebase, and Redux. A unique development approach, enriched by a yoga instructor certification, ensures precise, creative problem-solving. Ready for global collaborations, freelance projects, or contractor roles in Mexico and worldwide, with the flexibility to adapt to different work environments and project requirements, showcasing a broad skill set primed to deliver innovative solutions to complex technological challenges.

EXPERIENCE

Freelance: Fullstack Developer — 05-2023 - Present, Remote

- Utilizing Next.js for server-side rendering to boost page load times and SEO, coupled with React, has enabled the creation of dynamic, user-responsive interfaces. Application designs, enhanced by TailwindCSS and Bootstrap, ensure cross-device compatibility. Employing AstroJS elevates site efficiency, while deployment via Vercel and Cloudflare provides robust security and global reach, contributing to a consistent 95+ Lighthouse score, signifying superior performance and quality.
- Initiated a project to create educational program systems through text analysis and AI models. Frontend tasks are handled with Angular, while backend processes leverage Express, Node.js, Docker, and GitLab, ensuring an efficient system. This amalgamation of technology has maintained a 100% client satisfaction rate in my freelance journey, reflecting a commitment to excellence.

Softtek: Software Engineer — 01/2023 - 05/2023, Remote

- During the tenure at Softtek, significant milestones were achieved in the development of the SQL Diagnostic Manager. By harnessing Angular for its dynamic UI capabilities and NodeJS for a scalable back-end, contributed to creating a powerful platform. Implemented Highcharts to provide intricate visualization, effectively showcasing data from up to 200 database instances. This enhancement greatly bolstered the decision-making process, allowing teams to derive insights more efficiently. In essence, enhanced database visualization was achieved through the integration of Angular, NodeJS, and Highcharts, resulting in more informed decision-making for users.

Research Solutions: Senior Frontend Developer — 01/2017 - 01/2023, Remote

- Led the development of 30% of the platform's gadgets (Angular apps), resulting in a substantial 70% optimization of workflows for clients and scientists.
- Engineered a backend using Python and NodeJS, achieving up to a 50% enhancement in processing efficiency for the suite of gadgets.
- Created the primary interface for a pivotal gadget, which presented a comprehensive daily and monthly summary of Covid-19 articles, unlocking access to over 80% of the articles available in NCBI.
- Led the development of an Office add-in for Outlook using React, facilitating seamless access to reference lists within users' Article Galaxy accounts. This integration aimed to boost the sale and/or rental of items available within the Article Galaxy platform.

NA-AT Technologies: Frontend Lead — 09/2021 - 08/2022, Remote

- Pioneered the iBoarding module for HSBC's Commercial Banking (FAD) utilizing Angular, Jenkins, Sonar Cloud, SonarLint, and Angular Material Design, resulting in a remarkable 50% reduction in the time required for signing and managing business loan applications.

Freelance: Web Developer — 03/2015 - 12/2017, Mexico City

- Effectively reduced the development time and cost of native applications by up to 50% by leveraging JavaScript, CSS, and HTML. Demonstrated this efficiency across various projects, including apps for prominent banks such as Banorte, MetLife, and Banregio.

Vexilo: Web Developer — 11/2013 - 03/2015, Mexico City

- Utilized Google's best practices and W3C standards along with CSS, HTML, JavaScript, PHP, Laravel, and SEO strategies to successfully optimize over ten websites and e-commerce platforms. Achieved top-ranking positions in organic search results within a span of less than three months.

SKILLS

AREA	LANGUAGES/TOOLS
Programming Languages	JavaScript (React, Angular, Node.js), TypeScript, Python, HTML5, CSS3 (Bootstrap, TailwindCSS), PHP, SQL (MySQL)
Frameworks & Libraries	Frontend: ReactJS, Vue.js, Next.js, Nuxt.JS, Angular, Backend: Express, Laravel, Testing: Jest, Cypress, Others: Redux, GraphQL
Database Management	Relational: MySQL, NoSQL: MongoDB
Development Tools	Version Control: Git, Bitbucket, SourceTree, Project Management: Jira, Confluence, Monday, CI/CD: Jenkins, Sonar Cloud, Sonar Lint, Design: Adobe Illustrator, Photoshop, Figma, Others: Command Line, Linux Servers
Cloud & Deployment	GCP, Firebase
Testing & Quality Assurance	Selenium, Jest, Cypress, Sonar Cloud, Sonar Lint
Agile Practices & DevOps	Scrum, Kanban, Agile Methodologies, Software Engineering Practices, Continuous Integration/Continuous Deployment (CI/CD)
Design & Architecture	Design Patterns, Object Oriented Programming, Architectural Patterns
CMS/E-commerce Platforms	WordPress, Shopify, Joomla

EDUCATIONAL & QUALIFICATIONS

SECTION	DETAILS
Languages	Spanish: Native English: Intermediate
Education	B.Sc. in Computer Systems Engineering Universidad Bancaria de México, 2013
Certifications	Project Management Fundamentals, Coursera, 2022