

Abelardo Asensio Callol | Senior Software Engineer

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Profile

Senior Full Stack Engineer with 13+ years of experience designing and delivering innovative web applications across front-end and back-end platforms. Proven expertise in software architecture, scalable system design, and full project lifecycle delivery. Skilled in PHP, Java, JavaScript, TypeScript, Angular, Vue.js, and React, with a strong foundation in cloud technologies and Agile methodologies. Adept at enhancing user experiences, improving operational efficiency, and driving technical excellence through clean, maintainable code and modern best practices. Recognized for fostering cross-functional collaboration and leveraging cutting-edge solutions to meet evolving business needs.

Professional Experience

Senior Software Engineer, Wabtec, Melbourne, Florida, United States

September 2023 – Present

- Led end-to-end UI development for Wabtec using Angular 14+, building high-performance components and micro-frontends.
- Translated complex UX workflows into production-ready interfaces, reducing on-screen latency and improving controller efficiency.
- Integrated front-end modules with AWS-hosted REST/WebSocket services, delivering sub-second real-time data.
- Drove code quality with >90% test coverage, SonarQube gates, and GitLab CI/CD pipelines to minimize production defects.
- Optimized performance through lazy-loading, bundle profiling, and change-detection tuning, improving page load times by 35%.
- Partnered with Product, UX, and Architects to align UI roadmap with safety-critical rail dispatch requirements.

Senior Frontend Developer, Norwegian Cruise Line Holdings Ltd, Miami, Florida, United States

May 2022 – September 2023

- Developing and maintaining NCL's web applications, ensuring seamless performance and a positive user experience.
- Collaborating with the development team to translate business requirements into functional, visually appealing, and high-performing applications.
- Building reusable components, modules & libraries for future use, to improve the overall development process.
- Writing clean, maintainable, and efficient code to meet business requirements and industry best practices.
- Debugging and fixing complex bugs and performance issues.
- Participating in code reviews and contributing to the development of software development best practices.
- Staying up-to-date with new frontend technologies and trends, and recommending improvements to the development process.

Senior Software Engineer, Behavioral Service Network, Miami, Florida, United States

November 2021 – May 2022

- Renewed the technological infrastructure of the company to improve efficiency.
- Established optimized workflows for test and production environments.
- Implemented continuous integration and continuous development using AWS cloud technology.
- Developed a user registration system to manage, monitor, process & sign digital contracts for new members in the network.
- Created, implemented a robust website using cloud technology, with a focus on optimal configuration and performance.

Senior FullStack Engineer, Power Wizard, Remote, United States

August 2020 – November 2021

- Design and build scalable, maintainable solutions across the full stack—frontend, backend, and database.
- Develop AWS-hosted applications using serverless and event-driven architectures to support business growth.
- Collaborate with cross-functional teams, engaging both technical and non-technical stakeholders to deliver robust solutions.
- Continuously improve code quality through peer reviews, refactoring, and performance optimization.
- Contribute to agile processes, including sprint planning and defining workflows for operational excellence.
- Communicate technical concepts clearly, making designs accessible to diverse audiences.

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FullStack, UX/UI API Developer, Ubicquia, Melbourne, United States

April 2019 – August 2020

- Designed and implemented new API endpoints for a customer-facing portal, enhancing connectivity and system cohesion.
- Improved product aesthetics and UX, achieving a 72% increase in Customer Happiness Index (CHI).
- Integrated third-party services and APIs, standardizing user account management and reducing code duplication.
- Optimized data storage and reporting queries with MariaDB and Redis, decreasing response times by 71%.
- Developed technical documentation and assisted in design/implementation planning for new projects.
- Collaborated with developers, designers, QA, and stakeholders to deliver features and improve processes.

Senior Web Developer, Altimetrik, Montevideo, Uruguay

August 2017 – December 2018

- Maintaining newly developed and legacy systems using Java, Angular & Salesforce APEX languages.
- Documenting solution architecture for the critical external web app reducing the TTM (time-to-market) by 53% ensuring high code maintainability.
- Improving product aesthetic and UX of the high-profile internal web application, resulting in 84% increase in sales and product revenue.

FullStack Developer / Team Leader, Tourism Electronics Group (GET), La Habana, Cuba

November 2014 – May 2017

- Established common coding standards for a team of 10 developers, reducing code complexity and improving maintainability of shared libraries and components.
- Designed and implemented a 99.99% uptime REST API for a high-volume internal application, enabling distributed functionality and strengthening system cohesion.
- Integrated third-party services and external APIs, simplifying architecture and reducing overall system complexity.
- Conducted unit and load testing, identifying critical performance issues early and enhancing system stability and scalability.

Web Developer / Project Leader, Vibalco, La Habana, Cuba

June 2012 – November 2014

- Developed and delivered custom web applications for the non-state sector in Cuba, supporting diverse business needs.
- Managed web application hosting, deployment, and cloud maintenance, ensuring reliable performance and uptime.
- Led requirements gathering, planning, estimation, and supervision across all stages of the development lifecycle. Partnered with the sales department to support client proposals and new project quotes, contributing to business growth.

Web Developer / UI Design, Universidad de las Ciencias Informáticas, La Habana, Cuba

January 2006 – September 2013

- Developed new functionalities for the Hospital Information System (XAVIA HIS), enhancing system capabilities and usability.
- Led requirements gathering and interface design (UI/UX) to deliver intuitive, user-centered healthcare solutions.

Education

Sales Development Representative, Digital Sales Academy, Online, Florida, United States, *March 2024 – March 2025*

Bachelor of Science in Computer Science Engineering, Universidad de las Ciencias Informáticas, La Havana, Cuba
September 2006 – June 2011

Additional Information

Languages: Spanish (Native), English

Links: asensiocallol.com | [linkedin.com/in/asensiocallol/](https://www.linkedin.com/in/asensiocallol/)