

# Abdel Alexis Posada Contreras

## Senior Software Engineer

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I'm a Software Engineer with a strong focus on the JavaScript stack. With a deep passion for coding and problem-solving, I have dedicated my career to developing robust and scalable applications using various frontend frameworks and technologies.

**Technologies:** Node, React, OpenAI API, Langchain, Chroma, Supabase, Next.js, JavaScript, Java, MongoDB, Angular, Docker, Redis, Express, Sass, K8s, PostgreSQL, and more.

## Experience

### Senior Software Engineer @Lemon/Contractor (May. 2023 – Present)

- Integrated a RAG pipeline using LangChain and a vector database to enable context-aware responses in a chatbot application.
- Implemented OpenAI API and MistralAI API for alternatives to deliver context-aware and accurate responses in the application..
- Integrated WhatsApp business to expand chatbot functions to the company's whatsapp account.
- Leveraged LLM capabilities to extract structured information from unstructured data sources.
- Introduced to Model Context Protocol (MCP) development.

### Senior Software Engineer @Varis (Jul. 2023 – Oct. 2024)

- Implemented a new library to use across the company projects to facilitate usage in api calls with Typescript.
- Contributed to the company UI system by creating new components, adding features to existing components and fixing bugs.
- Created UI to handle business rules for clients and users by implementing Next.js + Typescript.
- Connected existing system with business logic from the admin company site by using microfrontends with module federation.
- Maintained legacy code and helped in transition to the new UI system.
- Improved CI/CD for existing libraries to reduce delivery times.
- Guided and mentored new developers in understanding tasks and delivering highly code.
- Coordinated the development of new features to deliver in time and with best practices.

### Senior Software Engineer @X-Team (Sep. 2021 – Jul. 2023)

- Introduced into Web3 development using ethers.
- Designed a database for handling NFT transactions.
- Designed a UI system that adhered to design standards and was reused throughout the entire application enforcing type safety.
- Integrated with third-party payment processors to support multiple countries and payment methods to maximize accessibility.
- Helped in the decision-making for future implementations and technology stacks by participating in daily and weekly Scrum meetings.
- Optimized data processing by leading an initiative to migrate a database, lowering costs and improving performance.
- Optimized delivery application using Locus service.
- Created custom components ready to implement in a CMS and allow customization using Contentful.
- Added unit tests to increase code coverage of the applications.

### Software Engineer @Edlio (Nov. 2020 – Sep. 2021)

- Implemented a secure login service with multiple SSO integrations, allowing users to enter their login credentials only once.
- Added Unit Tests to increase the code coverage of a Node-based application and to ensure the application met performance expectations.
- Designed and developed low latency microservices using popular AWS services (such as EC2, S3, RDS, Lambda, SNS, and SQS).
- Supervised the migration of legacy code (Perl and Python) to a more efficient microservice that significantly improved system security.
- Created over 50 Pull Requests on Node code which allowed for new functionality and fixed existing bugs.
- Automated a system that used Twilio as a provider to handle messages being sent over multiple Messaging Services.
- Performed over 100 code reviews to ensure optimal production results.
- Managed the collaboration between US and LATAM teams to share findings, solve problems, and coordinate mutual deadlines.

### Tech Lead Engineer @Metrica Movil (Nov. 2015 – Oct. 2020)

- Designed and developed a web application that handled over 20,000 simultaneous users.
- Created an optimized and robust database for high-traffic data that handled millions of weekly requests with high performance.
- Delivered over 20 user-friendly web interfaces (using React and Angular).
- Implemented CI/CD pipelines for projects that automated building, testing, and deploying applications.
- Built a Java-based mobile application (Android) which helped organize internal company tasks.
- Guided and mentored fellow developers in writing easily maintainable and highly reusable code to meet customer requirements.
- Conducted over 300 code reviews on more than 20 projects to ensure the software met its specifications and quality standards.
- Coordinated Sprint rotations and created product backlogs (using Scrum methods) to expedite the development process.
- Built and deployed containers that increased the portability, efficiency, and manageability of software packages.
- Defined and supervised more than 10 projects to ensure efficiency and outstanding system performance upon delivery.

## Education

### BS in Computer Systems Engineering @Instituto Tecnológico de la Laguna (Jun. 2011 – Sep. 2015)