

Ángel Abraham Guillermo Mondragón Calderón

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| <https://github.com/AngelMond>

Education

UVEG (Universidad Virtual del Estado de Guanajuato)

Computer Systems Engineering

Online, Mexico

November 2023 - Present

Tec de Monterrey

Certificate as fullstack developer

Online, Mexico

January 2022 – August 2022

Experience

INE (Instituto Nacional Electoral)

January 2024 - Present

Developer

Architected and developed enterprise systems using comprehensive design patterns for both frontend and backend components. Designed scalable infrastructure solutions for production deployment, conducted stakeholder requirements analysis, and applied Agile/SCRUM methodologies for project delivery. Built full-stack applications leveraging React, TypeScript, Laravel, MySQL, Linux, Nginx

Cuatro Networks – 4N

August 2022 – December 2023

Fullstack developer

Led full-stack system development from requirements gathering through deployment. Architected and developed Java microservices, designed intuitive user interfaces, and built reusable component libraries. Implemented complex business logic for automated XLSX report generation from XML data sources. Mentored junior developers and provided technical training in Solr, Git, and Linux.

Projects

Mefic (INE) <https://mefic.ine.mx/>

* React *Laravel *Redux *OpenSSL *Nginx *CSS *MUI *SMTP

Delivered a comprehensive role-based election management system under tight deadlines for national Judicial Branch elections. Architected REST APIs for frontend integration and developed Laravel backend methods for automated expense report generation with X509 digital signature capabilities, including certificate file (.cer/.key) processing and validation. Implemented Redux for centralized state management, leveraged React Context API for data flow, integrated lazy loading and protected routing with role-based access control. Built robust HTTP communication layer using Axios with custom interceptors. Authored technical documentation for nginx server configuration and deployment, designed MySQL database schema and table structures.

Chatbot (INE) <https://sif.ine.mx/loginUTF/>

* React *Laravel *Redux *Api rest *nginx *Bootstrap *Nodejs

Refactored existing React chatbot code and Node.js Telegram chat implementation. Enhanced and modernized legacy code components for improved functionality and performance. Integrated Axios library in React for efficient HTTP request management.

Cehval (INE) <https://www.cehval.com/>

* React *Bootstrap *Context *AWS *MFA2

Developed a financial system for managing Central Bank of Honduras exchange rate data. Conducted requirements analysis, built reusable components, and created responsive user interfaces using Bootstrap framework.

Atena 4N – UIF (Unidad de Inteligencia Financiera)

* Java *Solr *React *Redux

Developed an enterprise search system enabling analysts to query millions of records efficiently. Implemented Apache Solr with Java, configured faceted search and pivot functionality, and created methods for XML file processing and automated XLSX report generation.

Alefisioqui – Web <https://alefisioqui.mx/>

* Nextjs *TypeScript *SMTP *SEO *Linux *Nginx

Developed a promotional website for physiotherapy and chiropractic services. Implemented SEO best practices to improve organic search rankings on Google, integrated Google Analytics for performance tracking, and configured sitemap indexing through Google Search Console.

Certifications:

[Associate Cloud Engineer](#) • [Angel Abraham Guillermo Mondragon Calderon](#) • [Google Cloud](#)

Skills:

Developed architecture diagrams and flowcharts, performed database normalization, gathered requirements, and configured nginx infrastructure for production deployments. Implemented design patterns and clean architecture principles to ensure code modularization and system scalability.