

Ricardo Alexei Palacios Ayala

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Website: <https://alexeipalacios.cloud/>

Education

Universidad Tecnológica de Jalisco

Bachelor's Degree in Software Engineering

Guadalajara, JAL

Graduation: August 2022

Universidad Tecnológica de Jalisco

Associate Degree in Multiplatform Software Development
2020

Guadalajara, JAL

September 2018 - August

Experience

Technologies

JavaScript (Angular, Node.js, Express.js), NestJS (basic), PHP, MySQL, MongoDB, SQL Server, Git, CI/CD, Docker (basic), HTML, CSS, Bootstrap, TailwindCSS, JQuery, Wordpress, Linux, Python, SCRUM, AWS. DynamoDB. Bedrock, Lambdas, React/Vite.

Genpact:

AI & Cloud Engineer — Genpact

Zapopan, Jalisco, México

Nov 2024 - Current

Develop and maintain serverless automation pipelines on AWS, leveraging Lambda functions and DynamoDB for scalable, event-driven data processing workflows.

Implement AI-powered solutions using Amazon Bedrock, integrating foundation models into enterprise automation processes to enhance operational efficiency and decision-making.

Build and maintain Python-based backends and data processing scripts, applying software engineering best practices for readability, modularity, and performance.

Design and develop modern frontend interfaces using React and Vite, delivering responsive and performant user experiences connected to AWS-backed services.

Collaborate in cross-functional teams following agile methodologies, contributing to the full software development lifecycle from architecture design to production deployment.

DeeplA

Full Stack Developer

Zapopan, Jalisco, Mexico

June 2023 - August 2024

- Develop and maintain web applications using Angular for frontend and Node.js/Express.js for backend.
- Utilized SCRUM methodology for efficient project management and team collaboration.
- Developed automation scripts using Linux shell scripting and Python to streamline the build process for Angular projects, resulting in improved efficiency and reduced deployment times
- Successfully containerized a NodeJS project using Docker, enhancing portability and simplifying deployment across different environments.
- Implement and maintain secure user authentication systems using OAuth (Google) and JWT for token validation in frontend and backend
- Implement RESTful APIs and integrate with MongoDB and MySQL databases with HTTP protocol.
- Utilize Git for version control and participate in CI/CD environments with Azure.
- Developed and implemented a connection between a NodeJS/Express backend and Azure for handling video files intended for a Machine Learning model, achieving
 - 40% reduction in video processing time.

- 30% increase in ML model efficiency due to optimized data handling.
- Scalability to handle a volume of 500 GB of videos daily without performance loss.
- Developed a comprehensive custom ERP platform for parcel logistics, featuring:
 - Integrated service payment system
 - Real-time package tracking functionality
- Advanced data visualization capabilities, including
 - Global utility reports for each individual service
 - Per-user utility breakdowns
 - Aggregated utility analysis across all users
 - Admin dashboard for holistic overview and management
 - User-friendly interface for both clients and administrative staff
- Leveraged TypeScript throughout the development process to enhance code quality, maintainability, and developer productivity.

PHP Developer

- Developed a comprehensive custom WordPress plugin for WooCommerce stores, integrating with the Superenvios API, featuring:
 - Automated shipment quoting and waybill generation
 - Recharge request system for user accounts
 - Cancellation request functionality for existing waybills
- Developed an accompanying admin portal for managing plugin operations, including:
 - Approval of recharge requests
 - Review and processing of cancellation requests
 - User management system
 - Commission percentage control for each user
- Implemented secure user authentication and authorization systems
- Designed intuitive interfaces for both store owners and administrators
- Integrated real-time data synchronization between the plugin and admin portal
- Developed and implemented a Progressive Web Application (PWA) for a business networking company, designed to.
 - Facilitate new connections between businesses
 - Foster mutual growth opportunities
 - Enhance user engagement through responsive design
 - Provide offline functionality and fast loading times
 - Improve accessibility across various devices and platforms

Freelance Project Redesign PRACOFI Website

**Guadalajara, Jalisco
March 2022**

- Developed and implemented PRACOFI website. (<https://pracofi-remodel.vercel.app>)
- Utilized modern web technologies to create a responsive and user-friendly interface skills, knowledge, abilities, or achievements.