

# CARLOS PINEDA

Full Stack Engineer | Software Engineer | Full Stack Development | Cloud Solutions

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<https://carlopineda.space/> San Pedro Sula, Cortés, HN



## SUMMARY

I am a detail oriented software engineer with 3 years of experience in frontend, backend, software architecture, database design and cloud & DevOps. Leveraging skills in **Java, Python, Go (Golang), TypeScript, Node.js, PostgreSQL and MongoDB** to drive innovation, My most significant accomplishment is leading the development of **AssignPro**, a platform that operates course and learning path assignments in bulk, solving a critical inefficiency in LMS workflows. The solution, built with **Spring Boot, React, and AWS**, streamlined operations for administrators and increased assignment throughput by over 25%.

## SKILLS

Java, JavaScript, Go (Golang), Node.js SQL, Spring, Spring Boot, React.js, Spring Data, Spring Batch, Kubernetes, Docker, OAuth 2.0, TypeScript, SASS, TailwindCSS, GCP, Linux, PostgreSQL, MongoDB, Couchbase, Oracle Database, MySQL, AWS, DigitalOcean, Jenkins, ArgoCD, Git, GitHub, Bitbucket, Data Structures, Agile, Maven (Build Tools), Gradle (Build Tools), Python, Flask

## EXPERIENCE

### 08/2024 - Present

San Pedro Sula, Honduras

#### LMS Software Developer

##### CODE Éxitos

- Led backend development for an enterprise-scale Learning Management System (LMS), enabling bulk operations that reduced manual processing time by 40% for user status updates, content assignments, and license management.
- Delivered and controlled scalable services supporting 5,000+ active users across corporate training platforms, driving a 30% increase in automation efficiency and significant reductions in manual administrative work.
- Collaborated and explored with cross-functional teams to design a modular system architecture, achieving 100% seamless integration with third-party LMS platforms.
- Reduced onboarding time by 50% and cut license provisioning errors by over 60% through automation of user creation workflows and permission assignments.
- Enhanced internal reporting tools used by hundreds of administrators, providing real-time insights and enabling data-driven decisions through downloadable reports and analytics dashboards.

### 11/2023 - 08/2024

San Pedro Sula, Honduras

#### Software Engineer

##### San Services

- Engineered real-time data integration systems for enhanced user engagement, seeing a 15% rise in user retention.
- Developed and maintained backend systems supporting 100,000+ monthly travel reservations for high-traffic platforms like OBE Next Gen, used by Beaches and Sandals resorts.
- Applied a reservation relay system that synchronized booking data between five or more core services, improving consistency across systems and enabling real-time operations with 99.9% accuracy.
- Streamlined backend workflows to handle tens of thousands of bookings per day, reducing latency by 35% and increasing throughput during peak holiday seasons.
- Collaborated with product and QA teams to ensure scalability and reliability, achieving a 98% success rate in seamless deployments and robust integrations across platforms.
- Applied continuous delivery practices, enabling weekly feature releases and reducing deployment rollback incidents by 40% in collaboration with DevOps and infrastructure teams.

### 09/2023 - 06/2024

San Pedro Sula, Honduras

#### Backend Developer

##### Onetouch

- Led the development of a backend system for a food delivery application, enabling real-time order tracking, performance analytics, and top-selling product reporting.
- Collaborated with operations and product teams to design backend services that handled logistics, customer engagement, and vendor performance monitoring.
- Automated the deployment workflow through continuous integration pipelines, improving release consistency and reducing deployment time by 70%.
- Improved data processing performance and reduced response time, contributing to a smoother experience for drivers, restaurants, and customers.
- Integrated cross-functional testing and validation, ensuring platform reliability during peak delivery hours.

## EXPERIENCE

05/2023 - 08/2023

San Pedro Sula, Honduras

- **Full Stack Developer**

**Nova Casa**

- Contributed to the development of a web-based platform for managing real estate listings, enabling agents to sync property data with ease.
- Worked closely with the operations and marketing teams to deliver an intuitive dashboard that streamlined content publishing and catalog visibility.
- Integrated the company's property listings with Facebook Catalog, automating synchronization and reducing manual publishing efforts.
- Helped reduce listing publication time by 60% and supported the onboarding of over 1,500 properties, improving data accuracy across platforms.
- Collaborated cross-functionally to ensure the platform remained responsive, user-friendly, and aligned with business goals.

06/2022 - 11/2022

Siguatepeque, Honduras

- **Software Engineer Intern**

**DESOFIW**

- Developed a mobile application for a local restaurant as part of a software engineering internship, using Node.js (backend) and React Native (frontend).
- Implemented core features including menu management, order processing, and delivery tracking, significantly improving the restaurant's operational flow.
- Built a RESTful API to manage business logic, user authentication, and data handling.
- Worked independently across the full development lifecycle, applying clean code practices and agile methodologies.
- The app helped reduce customer service time by 40% and introduced mobile ordering capabilities for the restaurant using their physical tables as number references.

## EDUCATION

01/2020 - 06/2023

Copán, Honduras

- **Bachelor of Engineering - BE, Computer Science**

**Universidad Católica de Honduras**

GPA **93.2** / **100**

## PROJECTS

### EduKids - AI Learning Platform

Built a minimalist, child-friendly English learning platform with Next.js 15 and React 19, optimized for mobile.

- Implemented secure SSO with WorkOS, improving sign-in flow and session management.
- Leveraged TypeScript 5.8 and Prisma with PostgreSQL for type-safe data access and reliable persistence.
- Designed a clean black-and-white UI with Tailwind CSS, prioritizing clarity, accessibility, and low cognitive load.
- Adopted Next.js App Router and server/client components for simpler routing and faster initial loads.
- Established environment-based configuration and PNPM workflows for reproducible setup and smooth onboarding.
- Delivered MVP surfaces (login and SSO callback) along with reusable authentication patterns.

### AssignPro Platform

🔗 <https://assignpro.centralreach.com/>

Streamlines LMS bulk operations, letting admins manage content, update status, and define paths efficiently. Cuts manual work, ensures consistency, and offers real-time visibility via a modern web interface.

- Realized a platform to automate LMS tasks, reducing manual workload by 40%, leveraging Spring Boot, PostgreSQL, and AWS Cognito for secure scalability.
- Developed a React-based modern frontend with real-time tracking, history views, and efficient error feedback, enhancing administrative capabilities.
- Integrated complex server-side data handling with pagination, sorting, and filtering, ensuring efficient processing of large datasets.
- Architected type-safe, reusable components using Hexagonal Architecture, supporting maintainability and system scalability.
- Facilitated seamless external LMS integrations with REST APIs, promoting interoperability across multiple platforms.
- Established CI/CD and Docker for streamlined deployments, coupled with Flyway for database versioning.
- Enhanced platform performance with optimized data loading and component rendering techniques.

# PROJECTS

## Smartsheet Data Processor – Serverless ETL & Batch Automation

ETL and data ingestion from Smartsheet to PostgreSQL using AWS Lambda and Spring Batch. Enhanced validation, integrity, scalability, and reliability with reduced manual tasks.

- Contributed to the development of a hybrid solution using **Java 17, AWS Lambda, Spring Boot, Spring Batch, PostgreSQL, and Smartsheet SDK** to automate large-scale data ingestion and synchronization.
- Automated **form data ingestion and transformation**, reducing manual data processing by **70%** and lowering workflow errors by **35%**.
- Streamlined **data synchronization workflows for Smartsheet integrations**, improving automation reliability and reducing inconsistencies by **40%**.
- Implemented **validated field types and seamless transformations**, enhancing data integrity across downstream systems.
- Applied a **modular, maintainable architecture** to support future integrations and evolving business needs.
- Assisted in optimizing deployments with **Maven and Flyway**, achieving **30% faster release cycles** and reducing deployment effort.

## LMS User Creation Processor

LMS User Creation Process automates user creation and license assignment in an LMS. It integrates user data, group settings, and licenses seamlessly across databases and the LMS.

- Delivered a backend service with **Java 21, Spring Boot, PostgreSQL, Docker, and Terraform** to automate user creation and license provisioning for LMS platforms.
- Operated license assignments based on job titles, group locations, and organizational hierarchies, reducing manual intervention by 70% and provisioning errors by 60%.
- Enabled real-time synchronization with LMS platforms, cutting onboarding time by 50% and ensuring seamless access for learners and managers.
- Increased system reliability with custom exception handling, improving error resilience by 40% during runtime.
- Optimized deployments with **Docker and Terraform**, achieving 30% faster infrastructure setup and improved scalability.

## Centria Reporting System – Serverless Data Processing & Reporting

A serverless reporting solution for an educational platform that automates the **generation and delivery of learning progress and license compliance reports**. Built with AWS services and a Redshift data warehouse, it ensured scalability, cost efficiency, and secure report distribution.

- Engineered reporting pipelines using **Python, AWS Lambda, Amazon Redshift, and PostgreSQL connectors**, automating daily and scheduled report generation.
- Automated delivery of **learning progress and compliance reports** to stakeholders, reducing manual reporting effort by **75%**.
- Implemented **secure storage and retrieval** in **AWS S3**, ensuring compliance and reliable access to historical data.
- Used **AWS SES** for automated email delivery, improving stakeholder communication efficiency by **60%**.
- Established a **modular and maintainable architecture**, enabling scalability and adaptation for enterprise-level workloads.

## Booking Relay System (BRS) – Real-Time Reservation Synchronization

A reservation transfer system that synchronizes **OBE Next Gen** bookings with a centralized Oracle Database. Adopted to handle **massive data loads** with transactional accuracy, the system ensured consistency across platforms in real time.

- Built a **data pipeline** using **Java, Spring Boot, Spring Batch, PostgreSQL, Oracle Database, and Couchbase**, enabling high-throughput reservation synchronization.
- Processed **tens of thousands of bookings daily** with **99.9% accuracy**, ensuring consistency between OBE Next Gen and centralized systems.
- Utilized **Couchbase** as a temporary storage layer, optimizing synchronization speed and reducing data latency by 35%.
- Improved system scalability and deployment efficiency with **Kubernetes and ArgoCD**, achieving seamless rollouts in production environments.
- Strengthened reliability through **batch processing with Spring Batch**, ensuring fault tolerance and robust error handling during peak booking periods.

## OBE Next Gen

🔗 <https://obe.beaches.com/>

Built the backend for a **reservation booking web application** used by Beaches and Sandals resorts, enabling guests to manage lodging, flights, and additional services through a scalable and resilient system.

- Designed and enforced an **MVC-based architecture** with **Spring Framework**, ensuring clean separation of concerns and maintainability.
- Operated booking workflows with **Spring Batch**, processing **tens of thousands of reservations daily** with high efficiency.
- Optimized **data management and synchronization** using **PostgreSQL** and **Spring Data**, reducing manual intervention by **40%**.
- Ensured **scalability and fault tolerance** with **Kubernetes and ArgoCD**, achieving seamless deployments and reliable uptime during peak booking periods.

# PROJECTS

## FudGo – Real-Time Food Delivery Platform API

<https://www.fudgo.com/>

Architected the backend for a **food delivery platform** enabling real-time order monitoring, analytics, and user engagement. The system supported operations at scale with robust APIs and CI/CD pipelines.

- Generated **RESTful APIs** with **Node.js**, **Express.js**, and **Sequelize**, handling thousands of transactions per day.
- Implemented **real-time notifications** with **Redis** and **Socket.io**, improving order tracking accuracy by **45%**.
- Built **detailed analytics panels and user statistics**, enabling vendors to monitor performance and top-selling products.
- Optimized database queries with **PostgreSQL**, reducing response times by **30%** under heavy load.
- Automated deployments with **Jenkins CI/CD pipelines**, cutting release time by **70%** and ensuring consistent delivery.
- Deployed on **DigitalOcean** for scalable infrastructure and high availability.

## Nova Casa Dashboard

<http://novacasa.netlify.app>

Built a web application for **real estate property management**, enabling agents to manage properties, perform advanced searches, and update listings in real time to optimize sales and rental processes.

- Improved data management efficiency by 25% by building a scalable backend with **Node.js** and **MySQL**.
- Created an interactive dashboard with advanced search capabilities and personalized filters, improving data accessibility and usability.
- Designed a responsive interface with **Bootstrap** and **JavaScript**, enhancing user experience across desktop and mobile devices.
- Incorporated features to import and manage large volumes of property data, streamlining publication workflows.
- Reduced property listing publication time by 60% and supported the onboarding of over 1,500 listings, improving data accuracy across platforms.

# KEY ACHIEVEMENTS



### Platform Innovation

Led the development of **AssignPro**, a bulk assignment platform that decreased manual LMS operations by **40%** and refined throughput by **25%**.



### Certified Expertise

Achieved multiple industry-recognized certifications, including **MongoDB Associate Developer**, **Go Developer (Hyperskill)**, and **Software Engineer (HackerRank)**, demonstrating strong proficiency in backend development, databases, and DevOps practices.



### Performance Optimization

Optimized backend workflows for a **high-traffic travel reservation system**, cutting latency by **35%** and supporting **50,000+ monthly bookings** for Beaches and Sandals resorts



### Data & Reporting

Launched reporting systems like the **Knowledge Builder Report Server** and **Centria Reporting System**, automating **daily analytics reports** with AWS Lambda, Redshift, and Excel exports.

Created ETL pipelines with **Smartsheet Data Processor**, leveraging AWS Lambda and PostgreSQL to improve data integrity and scalability

# CERTIFICATION

## Go Developer

Hyperskill - July 2025

## Software Engineer

HackerRank - June 2025

## Java (Basic)

HackerRank - April 2025

## Software Engineering: Modeling Software Systems using UML

Coursera - April 2024

## Databases and SQL for Data Science with Python

IBM - February 2023

## Spring Framework Master Class - Java Spring the Modern Way

Udemy - November 2023

## Tools for Data Science

IBM - February 2023

## Crash Course on Python

Google - July 2022

## MongoDB Associate Developer

MongoDB - July 2025

## SQL (Basic) Certificate

HackerRank - April 2025

## DevOps Complete Course Specialization

Coursera April 2025

## AWS Cloud Technical Essentials

AWS - November 2024

## Learn Spring Boot 3 in 100 Steps

Udemy - December 2023

## The Complete JavaScript Course 2023: From Zero to Expert!

Udemy. May 2023

## What is Data Science?

IBM - January 2023

## Python for Data Science, AI & Development

Coursera - July 2022