



Carlos Pineda

Full Stack Software Engineer | Java · React · Spring Boot · TypeScript · AWS · DevOps · DDD

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Accomplished Full Stack Engineer with a proven track record of designing and developing high-performance, scalable systems using Java, Go, Python, Node.js, and modern frontend technologies including React, TypeScript, Material UI, and SASS. Proficient in delivering end-to-end solutions by combining robust backend services with clean, responsive, and accessible user interfaces. Experienced in a wide range of frameworks and tools such as Spring Boot, Express.js, PostgreSQL, MongoDB, and RabbitMQ, and adept at creating data pipelines, optimizing database performance, and building applications that provide actionable insights through intuitive dashboards and interactive features.

Passionate about writing clean, maintainable code that follows SOLID principles, modular architecture, and modern DevOps workflows. Thrive in Agile environments, working effectively across cross-functional teams, and communicating complex technical concepts clearly throughout the development lifecycle.

Excited about the opportunity to bring my diverse full stack skill set and contribute to building innovative platforms and tooling that empower developers and deliver exceptional user experiences to millions. Committed to continuous learning and currently preparing for the Oracle Certified Java 17 Developer certification.

[LinkedIn](#)

[HackerRank](#)

[Hyperskill](#)

EXPERIENCE

CODE Éxitos

August 2024 - Present

LMS Software Developer

- Led backend development for an enterprise-scale Learning Management System (LMS), enabling bulk operations such as user status updates, content assignments, and license management.
- Delivered scalable services that supported thousands of users across corporate training platforms, contributing to improved automation and significant reductions in manual administrative work.
- Collaborated with cross-functional teams to design a modular system architecture that supported smooth integration with third-party LMS platforms.
- Reduced onboarding time and license provisioning errors through the automation of user creation workflows and permission assignments.
- Supported the development of internal reporting tools, empowering administrators with real-time insights through downloadable reports and analytics dashboards.

San Services Honduras

November 2023 - August 2024

Software Engineer

- Developed and maintained backend systems supporting travel reservation management for high-traffic platforms like OBE Next Gen, used by Beaches and Sandals resorts.
- Designed a reservation relay system to synchronize booking data between multiple services, improving consistency across systems and enabling real-time operations.
- Streamlined backend workflows by implementing data processing solutions that efficiently handled massive booking volumes, reducing latency and increasing throughput during peak periods.
- Worked closely with product and QA teams to ensure system scalability and reliability, contributing to seamless deployments and robust integrations across platforms.
- Supported continuous delivery practices, enabling more frequent and stable feature releases in collaboration with DevOps and infrastructure teams.

Back End Developer

- 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 supported 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.
- Supported cross-functional testing and validation, ensuring platform reliability during peak delivery hours.

NovaCasa Dashboard – Real Estate Listing Platform

May 2023 - August 2023

Full Stack Developer

- 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.

DESOFIW

June 2022 - November 2022

Software Engineering Intern

- 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

Universidad Católica de Honduras 'Nuestra Señora Reina de la Paz'

January 2020 - June 2023

Bachelor of Engineering - BE, Computer Science

During my Bachelor of Science in Computer Science at Universidad Católica de Honduras 'Nuestra Señora Reina de la Paz', I honed a variety of skills.

- I developed proficiency in troubleshooting and back-end web development, which allowed me to solve complex problems and contribute to team projects.
- I enhanced my communication skills, which helped me to effectively collaborate with team members and stakeholders.
- I mastered Object-Relational Mapping (ORM), which improved my efficiency in managing databases.
- I demonstrated my ability to multitask and pay attention to detail, which increased my productivity and the quality of my work.
- I became proficient in Microsoft Office, software development, and computer science, which broadened my technical skill set.
- I learned HTML5 and front-end development, which expanded my capabilities in web development.

SKILLS

Programming Languages:

- Java
- JavaScript
- Go

- PHP
- NodeJS
- SQL

Frameworks, Libraries and Tools:

- Spring Boot
- Hibernate
- React
- Spring Data
- Spring Batch
- Kubernetes
- Docker

Web Development:

- HTML
- TypeScript
- CSS
- React
- SASS
- TailwindCSS

Software Design:

- Clean Code
- Clean Architecture
- SOLID Principles

Database Management:

- PostgreSQL
- Couchbase
- Oracle Database
- MySQL
- MongoDB

Cloud Platforms:

- AWS
- DigitalOcean

DevOps & CI/CD:

- Jenkins
- ArgoCD
- Kubernetes
- Github Actions
- JFrog Artifactory
- SonarQube

Other Tools:

- Postman
- Github

CERTIFICATIONS

MongoDB Associate Developer *July 2025*

MongoDB
[Show credential](#)

Go Developer *July 2025*

Hyperskill
[Show credential](#)

Software Engineer *June 2025*

HackerRank
[Show credential](#)

SQL (Basic) Certificate *Apr 2025*

HackerRank
[Show credential](#)

Software Engineer Intern Certificate *Apr 2025*
HackerRank
[Show credential](#)

Java (Basic) *Apr 2025*
HackerRank
[Show credential](#)

DevOps Complete Course *Apr 2025*
Coursera
[Show credential](#)

Advanced DevOps Tools and Practices *Apr 2025*
Coursera
[Show credential](#)

Build Automation and Continuous Integration *Mar 2025*
Coursera
[Show credential](#)

Advanced Git and GitHub Practices *Mar 2025*
Coursera
[Show credential](#)

Foundations of DevOps and Git *Mar 2025*
Coursera
[Show credential](#)

English Proficiency Certificate *Jan 2025*
Duoling English Test
[Show credential](#)

Software Engineering: Modeling Software Systems using UML *Apr 2024*
Coursera
[Show credential](#)

AWS Cloud Technical Essentials *Nov 2024*
AWS (Amazon Web Services)
[Show credential](#)

EF SET English Certificate 73/100 (C2 Proficient) *Aug 2024*
EF SET
[Show credential](#)

Arquitectura Software Moderna: DDD, Eventos, Microservicios *Jan 2024*
Udemy
[Show credential](#)

Learn Spring Boot 3 in 100 Steps - No 1 Java Framework *Dec 2023*
Udemy

[Show credential](#)

Spring Framework Master Class - Java Spring the Modern Way

Nov 2023

Udemy

[Show credential](#)

The Complete JavaScript Course 2023: From Zero to Expert!

May 2023

Udemy

[Show credential](#)

Databases and SQL for Data Science with Python

Feb 2023

IBM

[Show credential](#)

Tools for Data Science

Feb 2023

IBM

[Show credential](#)

Master en PHP, SQL, POO, MVC, Laravel, Symfony, WordPress +

Jan 2023

Udemy

[Show credential](#)

What is Data Science?

Jan 2023

IBM

[Show credential](#)

Crash Course on Python

Jul 2022

Google

[Show credential](#)

Data Engineering Essentials

Jul 2022

IBM

[Show credential](#)

Introduction to Data Engineering

Jul 2022

IBM

[Show credential](#)

Python for Data Science, AI & Development

Jul 2022

Coursera

[Show credential](#)

Introduction to Git and Github

Jun 2022

Introduction to Git and GitHub

[Show credential](#)

Questions, Present Progressive and Future Tenses

Mar 2022

Coursera

[Show credential](#)

Specialization: Learn English: Beginning Grammar

Mar 2022

Coursera

[Show credential](#)

Simple Past Tense

Mar 2022

Coursera

[Show credential](#)

Word Forms and Simple Present Tense

Mar 2022

Coursera

[Show credential](#)

CCNA: Introduction to Networks

Aug 2021

Cisco

[Show credential](#)

PROJECTS

AssignPro Backend

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

AssignPro Backend is a microservice application tailored for managing bulk content assignments, user status updates, and learning path operations. Designed for educational or corporate training platforms, it simplifies large-scale processes by offering efficient, secure, and well-structured backend solutions.

Technologies:

- Frameworks and Libraries: Spring Boot, Spring Data JPA, Spring Security
- Database: PostgreSQL, Flyway for migration
- Integration and Communication: RESTful APIs, AWS Cognito for authentication and authorization
- Architecture: Domain-Driven Design (DDD) with Hexagonal Architecture
- Mapping: MapStruct for DTO and entity transformations
- Containerization: Docker

Results:

- Successfully manages bulk operations for content assignments and user status updates, ensuring transactional consistency.
- Provides seamless integration with external Learning Management Systems (LMS) via ports and adapters.
- Facilitates secure and scalable API-driven content and learning path searching.
- Ensures maintainability and scalability with modular architecture and clean separation of concerns.
- Simplified deployment process with containerized Docker support and database versioning through Flyway.

AssignPro Client

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

A modern web application designed for efficient bulk data processing and management, featuring real-time tracking, detailed history views, and comprehensive filtering capabilities. This system streamlines large-scale data operations while providing users with intuitive controls and detailed feedback on their processes.

Technologies:

- Frontend Framework: React 19.0.0
- Programming Language: TypeScript 5.7.2
- UI Framework: Material-UI (MUI) 7.0.2
 - MUI X Data Grid
 - MUI X Date Pickers
 - MUI Icons
- Routing: React Router 7.5.3
- HTTP Client: Axios 1.9.0
- Build Tool: Vite 6.3.1
- Date Handling: date-fns 4.1.0
- Styling: Emotion (CSS-in-JS)
- Code Quality:
 - ESLint
 - TypeScript ESLint

Results:

1. Enhanced User Experience:
 - Implemented responsive design that adapts seamlessly across all device sizes

- Built an intuitive interface for complex data operations
 - Integrated real-time status updates and error feedback
2. Technical Excellence:
- Developed reusable, type-safe components using TypeScript generics
 - Implemented server-side pagination and sorting for optimal performance
 - Created a comprehensive filtering system with date ranges and status filters
3. Maintainability and Scalability:
- Established a modular component architecture
 - Implemented consistent error handling patterns
 - Created type-safe interfaces for data management
 - Maintained clean, documented, and maintainable code structure
4. Performance Optimization:
- Implemented efficient data loading with pagination
 - Optimized component rendering
 - Built with modern React practices for optimal performance
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LMS User Creation Processor

The LMS User Creation Process Application is a backend service designed to automate and manage the creation of users and the assignment of licenses in a Learning Management System (LMS). It ensures seamless integration of user data, group configurations, and license assignments across both databases and the LMS platform.

Technologies:

- Programming Language: Java 21
- Framework: Spring Boot (with Spring MVC and Spring Data JPA)
- Database: PostgreSQL - including Flyway for database versioning
- Cloud Integration: Amazon S3 for file handling and storage
- Containerization/Orchestration: Docker and Terraform
- Build Tools: Maven
- Others: SLF4J for logging, Lombok for code simplification

Results:

- License Assignment Automation:
 - Automated the assignment of licenses for LMS users based on job titles, group locations, and organizational hierarchies.
 - Reduced manual intervention and streamlined the user onboarding process.
 - Seamless Integration:
 - Successfully integrated with LMS, enabling real-time communication to assign licenses for both learners and managers.
 - Error-Handling & Robustness:
 - Implemented custom exception handling, improving application reliability during runtime.
 - Infrastructure Optimization:
 - Leveraged Docker for easy deployment and Terraform for managing infrastructure, ensuring scalability and maintainability.
 - Scalable Architecture:
 - Built a domain-driven service-oriented architecture, demonstrating modularity and ease of future extensibility.
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Knowledge Builder Report Server

This project is a backend reporting module designed to generate and export comprehensive administrative reports for educational or assessment platforms. It provides RESTful API endpoints to create Excel reports and JSON data for feedback, attempt summaries, item analysis, and SAFMEDS attempts, supporting advanced filtering and data aggregation.

Technologies:

- TypeScript
- JavaScript
- NestJS
- npm
- ExcelJS
- Swagger (OpenAPI)
- MongoDB (via service integration)

Results:

- Automated generation of detailed Excel reports for feedback, attempt summaries, and item analysis.
- Export of SAFMEDS attempt data in JSON format.

- Advanced filtering and aggregation for customized reporting.
- Modular, maintainable codebase with strong validation and error handling.
- Enhanced administrative insight into user performance and assessment analytics.

Smartsheet Data Processor

Smartsheet Data Processor is a serverless application that automates the extraction, transformation, and loading (ETL) of data from SmartSheets into downstream systems. This solution ensures seamless data validation and integration, enabling organizations to improve their workflows and data processing efficiency while minimizing infrastructure overhead through AWS Lambda scalability.

Technologies:

- Programming Language: Java 17
- Cloud Services: AWS Lambda (serverless architecture)
- Database: PostgreSQL, managed with Hibernate ORM
- Database Migrations: Flyway
- API Integration: Smartsheet SDK
- Data Management: JSON-B for flexible data storage and processing
- Utility Libraries: Agroal (connection pooling), Lombok (boilerplate reduction)

Results:

- Scalability and Cost Efficiency: Utilized AWS Lambda for highly scalable, serverless processing with minimal operational costs.
- Reliable Data Automation: Streamlined data synchronization workflows for SmartSheet integrations with robust ETL capabilities.
- Improved Data Integrity: Implemented validated field types and seamless data transformations ensuring accuracy in downstream systems.
- Extensibility: Designed a modular and configurable architecture, enabling adaptability for future business needs.
- Ease of Deployment: Simple deployment pipeline leveraging Maven for builds and Flyway for database schema management.

Smartsheet Bath Process

This project is a Spring Boot application that automates the import and processing of form data from CSV files into a PostgreSQL database, integrating with the Smartsheet API. It leverages Spring Batch for efficient, chunk-based data processing and uses JPA/Hibernate for ORM mapping of entities such as forms, fields, and records.

Technologies:

- Java 17
- Spring Boot
- Spring Batch
- Spring Data JPA (Hibernate)
- PostgreSQL
- Maven
- Lombok
- OpenCSV
- Smartsheet Java SDK

Results:

- Automates large-scale form data ingestion and transformation from CSV to database.
 - Ensures robust transaction management and error handling during batch processing.
 - Provides seamless integration with Smartsheet for data synchronization.
- Modular and maintainable codebase following best practices in modern Java development.

Centria Reporting System

This project is a serverless data processing and reporting system for an educational platform. It automates the generation and delivery of learning progress and license compliance reports, integrating with AWS services and a Redshift data warehouse.

Technologies:

- Python
- AWS Lambda (serverless)
- AWS S3 (file storage)
- AWS SES (email delivery)
- AWS Secrets Manager
- Amazon Redshift (data warehouse)

- psycopg2 (PostgreSQL/Redshift connector)
- CSV, JSON, and email handling libraries

Results:

- Automated daily and scheduled generation of learning progress and license compliance reports
- Secure storage and retrieval of reports in S3
- Automated email delivery of reports to stakeholders
- Scalable, modular, and maintainable architecture suitable for enterprise environments

Booking Relay System (BRS)

Developed a reservation transfer system to synchronize bookings from OBE Next Gen to a centralized Oracle Database.

Technologies: Java, Spring Boot, Spring Batch, Spring Framework, Spring Data, PostgreSQL, Oracle Database, Couchbase, Kubernetes, SQL, Postman, GitHub, Project Lombok, ArgoCD.

Results: Built an efficient pipeline for real-time data transfer from OBE to Oracle Database. Utilized Couchbase as a temporary storage layer for optimized synchronization. Processed massive data loads with Spring Batch for reliability and accuracy.

OBE Next Gen

<https://obe.beaches.com/>

Developed the backend for a vacation booking web application used by Beaches and Sandals. The platform enables users to manage lodging, flight reservations, and additional services.

Technologies: Java, Spring Boot, Spring Batch, Spring Framework, Spring Data, PostgreSQL, ArgoCD, Kubernetes, SQL, Postman, GitHub, Project Lombok.

Results: Designed and implemented an MVC-based architecture with Spring Framework. Automated booking processes and data management using Spring Batch. Implemented batch processing tasks to handle massive data loads with efficiency. Achieved scalability and seamless deployments with Kubernetes.

FudGo

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

Created an API for delivery app to monitor and manage real-time operations for food delivery platform. Includes detailed analytics panels, user statistics, and tracking of top-selling products.

Results: Implemented CI/CD pipelines with Jenkins for automated deployments. Designed and integrated RESTful APIs using Node.js and Express.js. Optimized database queries with Sequelize and PostgreSQL for efficient processing. Incorporated Redis and Socket.io for real-time notifications.

Technologies: Jenkins, Node.js, Sequelize.js, Express.js, PostgreSQL, AWS, DigitalOcean, Redis, Socket.io, RESTful APIs, CI/CD, Nx, GitHub, Postman API.

NovaCasa Dashboard

<http://novacasa.netlify.app>

Developed a web application for real estate property management. The platform enables users to manage properties, perform advanced searches, and update information in real time, optimizing sales and rental processes.

Technologies: Node.js, MySQL, HTML, Bootstrap, JavaScript.

Results: Created an interactive dashboard with advanced search capabilities and personalized filters. Implemented a responsive design to enhance user experience on mobile and desktop devices. Integrated features to import and manage large volumes of property data.

PayBridge

Developed a comprehensive payroll management API to automate and optimize payroll processes for organizations.

Technologies: Java, Spring Boot, Hibernate, PostgreSQL.

Results: Designed and implemented RESTful endpoints with Spring Boot to manage employee and payroll data. Automated complex payroll calculations, improving accuracy by 95%.

Personal Portfolio

March 2024

<https://www.carlopineda.space/>

A fullstack, containerized personal portfolio site developed from scratch to showcase professional experience, technical skills, and project highlights. Built using Go (Golang) for the backend and a custom-designed frontend with modular SCSS and JavaScript, the project emphasizes lightweight delivery, clarity in structure, and deployment automation.

Technologies:

- Frameworks and Libraries: Go Standard Library (net/http), custom HTTP handlers and services
- Frontend & Styling: HTML, SCSS, JavaScript (Vanilla)
- Build & Automation: Makefile
- Containerization: Docker
- Project Structure: Layered architecture with handler, service, and struct packages.

Results:

- Delivered a fully responsive and performant portfolio site with a clean modular layout and static asset optimization.
- Implemented a custom Go backend to serve frontend content with structured handler-service logic and simplified routing.
- Streamlined development and deployment with a custom Makefile and containerized setup using Docker, enabling fast local and production builds.
- Achieved 100% ownership from architecture to deployment, demonstrating backend expertise, fullstack fluency, and DevOps capabilities.
- Serves as a live, production-grade portfolio reflecting modern development practices and showcasing real-world engineering work.