John Harold Peña Acosta

Software Engineer

Phone: +1 849-409-9312 Email: johnhpena@gmail.com *Location: Santiago, Dominican Republic*
[Linkedin](#) [GitHub](#) [Portfolio](#)

Full Stack Developer with over 3 years of experience in designing, developing, and deploying end-to-end web applications. Proficient in building scalable backend systems using Java (Spring Boot, Spring Security) and creating dynamic, responsive user interfaces with React, Zustand, and Material UI. Experienced in developing and consuming RESTful APIs, working with relational and NoSQL databases such as PostgreSQL, MySQL, and MongoDB, and applying DevOps practices including Docker, CI/CD, and cloud deployments on AWS. Strong understanding of microservices architecture, software design patterns, and Agile methodologies. Recognized for delivering secure, maintainable solutions and collaborating effectively within cross-functional teams. Bilingual in English and Spanish.

EXPERIENCE

Associate Programmer, SML (Remote, USA) — *January 2023 – Present*

- Developed RESTful services using **Java (Spring Boot)** and Python for eCommerce integrations.
- Migrated legacy systems to modern architecture in Java, improving scalability and maintainability.
- Implemented database models and queries in **SQL Server** and **Mongo DB**.
- Developed React.js user interfaces.
- Integrated third-party APIs and ensured secure data transmission with JWT and OAuth2.
- Automated deployment with **Docker** and CI/CD pipelines using Jenkins and Maven

Full Stack Developer, EDENORTE (Santiago, Dominican Republic) — *July 2022 – October 2022*

- Refactored and maintained **Java** codebases and developed microservices with Spring Boot. Improved workflows by 70% through optimized backend logic and database design.
- Built and maintained REST APIs for internal applications.
- Improved business logic and database structure to streamline internal workflows by 70%.
- Applied CI/CD best practices and conducted unit testing with JUnit and Mockito.

PROJECTS

Medical Clinic Management System — 2025

- Streamlined clinic operations by managing appointments, patient information, medical histories, and records.
- Automated generation of treatments, medical licenses, and certificates.
- Tracked revenue and produced accurate financial reports for informed decision-making.

WhatsApp Chatbot for a Client — 2025

- Developed a WhatsApp chatbot using Node.js and Meta's WhatsApp Cloud API to automate customer interactions.
- Implemented interactive messaging with buttons, lists, and webhook logic for dynamic responses.
- Integrated Google Sheets for non-technical staff to manage content easily.
- Enhanced client engagement and significantly reduced manual workload.

POS System for a Client — 2025

- Built a MERN stack POS system with inventory control and multiple payment methods.
- Designed REST APIs and deployed the system with Docker.
- Delivered full documentation and post-launch support, ensuring smooth adoption.

Repository Application for EDENORTE — 2023

- Developed using Java and the full Spring Boot ecosystem.
- Used Oracle Database with Spring Data JPA for ORM-based persistence.
- Designed a responsive UI with Bootstrap, HTML, CSS, and JavaScript for an intuitive user experience.

AI-Powered Assistant for the Visually Impaired — 2022

- Built a Python-based system with OpenCV, YOLO, and OCR for real-time object and banknote recognition on Raspberry Pi.
- Generated audio feedback using text-to-speech, improving accessibility for visually impaired users.
- Included obstacle detection and other assistive features to enhance mobility and safety.

SKILLS

- **Languages:** Java, Python, JavaScript, Node.js, SQL, HTML5, CSS3
- **Backend Technologies:** Spring Boot, Spring Security, JPA/Hibernate, RESTful APIs, JWT, OAuth2, Express.js
- **Frontend Technologies:** React, Zustand, Material UI, Bootstrap, HTML5, CSS3
- **Databases:** PostgreSQL, MySQL, Microsoft SQL Server, Oracle, MongoDB
- **DevOps & Cloud:** AWS (EC2, RDS, S3), Docker, Kubernetes, Nginx, Jenkins, CI/CD pipelines
- **API & Integration:** Swagger/OpenAPI, Postman, RESTful API Design, Webhooks, OAuth2/JWT
- **Testing & QA:** JUnit, Mockito, Postman, Test-Driven Development (TDD)
- **Tools & Practices:** Git, GitHub, Bitbucket, JIRA, Agile Scrum, Microservices, Design Patterns, Load Balancing, Maven, Gradle

EDUCATION

Bachelor of Software Engineering
Pontificia Universidad Católica Madre y Maestra (PUCMM) — *Santiago, Dominican Republic* 2018 – 2022

Technical Degree in Electronics
Instituto Tecnológico México — *Santiago, Dominican Republic* 2018

CERTIFICATION

English Immersion Program
Ministerio de Educación Superior, Ciencia y Tecnología (MESCyT) — *Santiago, Dominican Republic* 2023

The Ultimate React Course 2024: React, Redux & More

Jonas Schredtmann, Udemy 2023

Aprende SCRUM

Carlos Solis, Linkedin 2023