

John Harold Peña Acosta

Software Engineer

+1 849-409-9312 · johnhpena@gmail.com · [LinkedIn](#) · [GitHub](#) · [Portfolio](#) · Santiago, Dominican Republic

Graduated in Software Engineer specialized in software development using Java and React, with 2 years of experience. My focus is on problem-solving, improving usability, and maximizing efficiency. I specialize in creating web applications and have effective experience working both independently and in Agile environments using Scrum methodologies. I am a clear communicator and proactive individual. Additionally, I am fluent in English and Spanish.

WORK EXPERIENCE

SML	USA
Associate Programmer	January 2023 –Currently
<ul style="list-style-type: none">Developed IT solutions as a member of the eCommerce platform team, written in Java, aimed at improving system performance and functionalities, and enhancing user experience.Implemented new features for specific products and markets using Java, contributing to product enhancements and market adaptability.Designed, managed, and optimized databases using Microsoft SQL Server, ensuring efficient data recovery.Improved solutions and bug fixes, optimized existing code for improved efficiency and stability, achieving a 10% error resolution rate.Migrated existing software to an updated version of Java, enhancing performance, security, and scalability.Executed CI/CD practices to improve software delivery efficiency, reducing errors and deployment times by more than 80%.	
EDENORTE	Santiago, Dominican Republic
Full Stack Developer	July 2022– October 2022
<ul style="list-style-type: none">Designed, implemented, and maintained projects utilizing Java, SQL, and GitHub.Improved an internal application to enhance team project access and management, reducing project access time by 70%.Applied CI/CD practices to enhance software delivery efficiency, reducing errors and delivery times.Optimized and improved existing Java code.Designed and applied databases and managed library integration and migration in programs.	

EDUCATION & CERTIFICATIONS

MINISTERIO DE EDUCACION SUPERIOR, CIENCIA Y TECNOLOGIA	Santiago, Dominican Republic
English immersion	2023
PONTIFICIA UNIVERSIDAD CATOLICA MADRE Y MAESTRA	Santiago, Dominican Republic
Software Engineer	2018-2022
Grade point average: 3.0	
INSTITUTO TECNOLOGICO MEXICO	Santiago, Dominican Republic
Electronics Technician	2018

TECHNICAL SKILLS

- Proficient in web development technologies, including **HTML**, **CSS**, **JavaScript**.
- Extensive experience using frameworks and libraries such as **Spring Boot**, **Express**, **React**, **Bootstrap**, **Material UI**.
- Knowledgeable in containerization using **Docker**, enabling efficient deployment and scalability of software.
- Skilled in managing various databases, such as **MySQL**, **Microsoft SQL Server**, **MongoDB**, **AWS**.
- Familiar with Object-Relational Mapping (**ORM**) technologies, especially **Hibernate** and **JPA**.
- Proficient in multiple programming languages, including **Java**, **C#**, **Python**, **NodeJS**.
- Experience with version control systems, especially **Git**, **GitHub**, **Bitbucket**.
- Solid knowledge of **SCRUM** methodology and experience using tools like **JIRA** for effective project management and team collaboration.
- Proficient in operating systems such as **Linux**, **Windows**, **Android**.
- Skilled in building tools like **Maven**, **Gradle**.
- Competent in developing and consuming **APIs**, leveraging platforms like **POSTMAN** for effective API building and testing.

RELEVANT PROJECTS

Repository Application for EDENORTE 2023

I developed an application to manage users and projects within the company, enabling quick and efficient access, as well as comprehensive control over created projects. This application improves project management and supervision within the company, optimizing operational efficiency and offering robust tools for user and project administration.

- Built using Java with the **Spring Boot** framework and its full ecosystem.
- **Oracle** Database is utilized via **ORM** connection provided by **Spring Data**.
- Visual implementation with **Bootstrap**, **HTML**, **CSS**, and **JavaScript** ensures an intuitive, pleasant, and responsive user interface.

Final Thesis Project Focused on Blind Persons 2022

I crafted advanced AI algorithms in Python for image processing to swiftly and accurately recognize various banknote denominations. This enhancement in financial management and promotion of economic autonomy integrates advanced obstacle detection using sensors and the camera. The application alerts about obstacles, aiding visually impaired individuals in navigating safely. Focused on universal accessibility, it includes an intuitive interface tailored for users with visual impairments.

- Implementation in **Python**.
- Use of **OpenCV** for image manipulation, processing, and data filtering.
- Implementation of **YOLO** for real-time object detection in images and videos.
- Utilization of **OCR** techniques for Optical Character Recognition.
- **Integration of text-to-speech libraries** and ambient sound recognition for providing real-time feedback on the detected environment or object.
- Creation of hardware using a **Raspberry Pi**, battery, camera, and open-ear headphones for an integrated and accessible experience.

Web Programming Projects 2020-2022

Enforced several web programming projects as part of the university curriculum. I used the Java programming language along with various frameworks and technologies, which included:

- **JDBC** with **H2** for database connectivity and **ORM-JPA** for object-relational mapping.
- Employed **Bootstrap** for crafting responsive web designs and ensured secure communication through **HTTPS** implementation.
- Configured **Virtual Host** and Reverse **Proxy** on **AWS** for deployment, while also developing **RESTful APIs** and utilizing **SOAP** for web services.
- Used **AJAX** and **Web Sockets** for real-time updates.
- Used **HTTP** Client for external **API** requests and created a mock API server with **Spring Boot** and **Docker**.
- Utilized **JMS** to implement a messaging system.
- Deployed a **Load Balancer** ensuring fault tolerance and distributing web sessions.
- Developed serverless applications using **AWS Lambda** and **MongoDB** for mobile applications.