

## PROFILE



Colombia



English –C1 Advanced

Spanish - Native

## SKILLS



JAVA 8,11 / SPRING / SPRING  
BOOT / JPA / HIBERNATE

JAVASCRIPT / JQUERY / CSS /  
HTML

JSP / JSF (PRIMEFACES)

RESTful API / GIT / SVN

ORACLE / SQL SERVER / MYSQL /  
POSTGRESQL

WILDFLY / TOMCAT

MICROSERVICES

AWS

## EDUCATION



2012 Bachelor's degree in Electronic  
Engineer  
Universidad de Nariño  
Colombia

2024 Microservices with Spring Cloud  
Mitocode  
Online

2022 Java 11 Backend Developer  
Mitocode  
Online

2019 Award Of Completion, Java SE 8  
Programming  
Oracle University / BSG Institute  
Online

2019 Award Of Completion, Java SE 8  
Fundamentals  
Oracle University / BSG Institute  
Online

2023 English Level C1 Advanced  
EF SET Certificate  
Online

# Nesly Diana Castro

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## SUMMARY



An experienced software developer with over 8 years of expertise with proficiency in different technologies such as Java, Spring, Spring Boot JPA, Hibernate, JavaScript, JSP, and JSF. Notable achievements include leading Java-based applications for government institutions and implementing web application features. Meticulous attention to detail, adept problem-solving, and quick learner ensure seamless project delivery. Proficient in software architecture, APIs design and cloud services tools.

## WORK EXPERIENCE



05/24 - Present

### Backend Developer

- Applaudo  
Remote
- Played a pivotal role as a software developer for a platform used to enable access to fast, flexible financing for all vehicle needs
- Ensured that each microservice was loosely coupled, independently deployable, and followed best practices for microservices architecture.
- After participating in the project, the development of new microservices increased by 15%, allowing for faster implementation of integrations with third-party APIs than initially anticipated

07/22 - 03/24

### Software Engineer

- BairesDev  
Remote
- Played a pivotal role as a software developer, focusing on enhancing employer and candidate engagement on a remote job search platform
- Responsibilities included designing, implementing, and adjusting features for posted jobs and candidates, enabling better matching of interests and improved visibility.
- Introduced new features resulting in a 10% increase in customer usage and significant revenue growth.

12/20 - 06/22

### Software and Support Engineer

- Bydrec  
Remote
- Acted as a software and support engineer for a platform hosting webinars, focusing on managing platform stability and performance.
- Addressed critical bugs and swiftly resolved them while collaborating on developing an internal tool to automate common platform issues.
- Improved customer satisfaction translated into better subscription renewal rates

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## WORK EXPERIENCE



03/20 – 11/20

### **Software and Support Engineer**

- Sutherland  
Remote
- Provided technical assistance to clients using the company's applications for financial crime mitigation, which are used by banks in Europe and the US.
- Implemented patches to fix critical bugs related to report design, security, and APIs.
- Addressed diverse issues crucial for preventing false risk alerts for clients globally.
- Achieved a 4% increase in error resolution rate, enhancing client satisfaction.

03/17 – 12/19

### **Software Developer**

- INVIMA - National Surveillance Institute of Medicines and Foods  
Colombia
- Developed Java web application (IVC SOA Ports) to assess imported food risk, enhancing national food surveillance capabilities and reducing physical inspections while prioritizing documental inspections based on risk criteria.
- Integrated the application with government systems nationwide, optimizing risk assessment processes across ports, airports, and borders.
- Reduced physical inspections by 34% and improved imported food quality after deploying the web application.

02/16 – 09/16

### **Junior Software Developer**

- Aplicaciones S.A.  
Colombia
- Developed, tested, and documented software components for a cinema loyalty card system using Java EE and related technologies.
- Contributed as a junior developer in migrating to Java 8 and Wildfly, ensuring seamless functionality transition and maintaining application integrity.
- Accelerated migration to Java 8 ensuring successful unit test execution.

03/15 – 03/16

### **Graduate Research Assistant (Web Page Management)**

- Universidad de los Andes  
Colombia
- Managed the web page serving an online community of over 2,000 active users.
- Designed, developed, and implemented website functionalities using Python/Django, JavaScript, jQuery, CSS, HTML
- Achieved a 5% increase in website visits by improving user experience with organized categories.

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## PROJECT CASES



Industry	Project Scope	Tech stack
Public Health	<p><u>Project:</u> Design and implement a Java-based web application, according to a risk-focused mathematical model fed with historical data, to evaluate and define the risk level of imported foods to the country (Colombia). Based on the delivered risk level, the application recommends whether a physical inspection of the food or only documentary inspection is necessary, thus encouraging improvement in the quality of the products entered and reducing costs in unnecessary physical inspections. The solution included meticulous planning, database design, and seamless integration of backend and frontend components. Additionally, the development of a REST web server was required to expose model results for consumption by government applications.</p> <p><u>Job Title:</u> Software Developer</p>	JEE, Hibernate, Spring Boot, JSF/Primefaces, JavaScript, SQL Server, Oracle, GIT, Scrum
Agriculture	<p><u>Project:</u> My participation on this project addresses the challenge of precision agriculture by designing and implementing a wireless sensor network to monitor soil moisture levels in a strawberry crop. The network collects data from various zones of the crop, enabling a control system to determine optimal irrigation timing and target specific areas for watering using drip irrigation. The irrigation control system is implemented through a web application, allowing for real-time monitoring of water levels in each crop section and enabling both automatic and manual irrigation control. Water requirements are estimated based on field capacity and irrigation threshold, enhancing water use efficiency and improving crop quality compared to traditional methods.</p> <p><u>Job Title:</u> Freelance Software Engineer</p>	Java 8, JSP, Tomcat, MySQL, JavaScript, JQuery, GIT, Scrum

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## PROJECT CASES



Industry	Project Scope	Tech stack
Education	<p><u>Project:</u> My participation on this project involved creating a backend focused on REST services to manage student enrollment records for an academy. This included storing student and course data, as well as student-course enrollment information. The solution entailed developing REST services for CRUD operations on students and courses, as well as registration of enrollments. Additionally, functionalities such as listing students sorted by age in descending order and displaying the relationship between enrolled courses and corresponding students were implemented using functional programming techniques.</p> <p><u>Job Title:</u> Software Developer</p>	<p><b>Spring Boot,</b> <b>RESTful API,</b> Spring Security, JWT, PostgreSQL, GIT, Scrum</p>