

JUAN CARLOS OTÁLORA CARO

Systems Engineer

PERSONAL INFORMATION

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SUMMARY

Systems Engineer with leadership skills and new projects undertaking, high compromise, seriousness and responsibility level. Excellent interpersonal relationships and teamwork skills. Work experience in different industries like commerce, air transportation, banking, manufacturing and cybersecurity, offering affordable solutions in optimal time. Acknowledgement about software engineering, UML, BPM, portals, databases, web applications, unit testing, continuous integration/delivery and agile methodologies. Trained to work for goals accomplishments, always realizing on a continuous improvement. Domain of English language at professional level and various sorts of software applications.

Experience with academic and productive software development projects, systems analysis and design, and custom solutions to distinct problems of the business processes.

Interests: Software analysis and design, statistic, artificial intelligence, cloud computing, blockchain and business management.

LABOR EXPERIENCE

- Company:** Appgate.
Position: Software Engineer
Time duration: 2021 - Nowadays
Job functions: Development and maintenance of multifactor authentication application under cybersecurity suite alignments. Handling of multiple versions and deliverables. Continuous improvement of the product realizing on internal and external clients feedback.
Job achievements: Diagnostic and solution of code auditing over different components. Coding good practices proposal and execution for application and maintenance enhancement. Refactor proposal and implementation of new security encryption algorithms to improve interchange of messages between product and clients. Proposal for fundamental enhancement of the existent contract tests. New version of product launching to provide new security features to strategic clients and known errors fixes. Proposal for architecture fixes of the product.
- Company:** Globant.
Position: Java Developer
Time duration: 2019 - 2021

Job functions: Development and maintenance of API layer to serve different mobile devices channels (Android and iOS), allowing the reception, mapping, and data transformation between internal Web layers and their later sending to the Front-End services, by mean of the use of Rest, Spring and Java 8, and following good practices as unit testing, isolation tests and code coverage. Development of backend microservices for frontend with Springboot and Java 11 applying clean architecture and clean code principles. Inception and ideation of new product to solve unsatisfied needs of people with informal jobs and lack of access to banking products, providing SSO authentication with integration of Azure and Spring-Security. Design and implementation of microservices clean architecture with Springboot.

Job achievements: Implementation of new feature Travel Funds to Southwest Airlines, from the conception phases of the new product, analysis and refinement, epic creations, user stories clasification, planning, execution and testing. With this new feature, the user has a new way to pay the bookings with gift cards and residual funds of previous canceled flights, and also, our team could obtain a regional recognition by the complexity, high quality of goal completions and successful of integration. Applying of clean architecture and clean code principles in international digital banking project for mortgages and loans. New product prototype launching for easy access to non-owner people of banking products. Design of teamwork strategy for technology migration of service payments application from NodeJS to Java with performance enhancement to support new users in Latinoamerican Fintech for debit cards project.

- **Company:** Macroproyectos.

Position: Software Engineer

Time duration: 2018 - 2018

Job functions: Design and development of software components of ForestBPM, aligned with company processes, technical specifications and quality.

Job achievements: Implementation of multidocumental viewer component v5 for ForestBPM by mean of microservices, unit testing, automatized deployment and code reviewing, allowing product customers to get important enhancements in their functionality.

- **Company:** IBM.

Position: Application Developer

Time duration: 2016 - 2018

Job functions: Development of Java Applications and theme development under WebSphere Portal. Supporting of REST services constructed as portal backend.

Job achievements: Implementing of Commercial Management application and internal portals in Seguros Bolívar applying Agile methodology for Marketing Department, allowing modernization of internal and external image. Implementation of script portlets technology, batch reporting tasks and massive mailing as a part of the fidelity and capture of customers program, by mean of the Banco de Occidente portal in ATH.

- **Company:** ISSC - IBM.

Position: Technical and Functional Analyst (IBM - GBS)

Time duration: 2014 - 2016

Job functions: Java applications development and portal theme implementations under WebSphere Portal.

Job achievements: Development of Crédito Constructor applications using REST services architecture, an innovation between existing applications of Fondo Nacional del Ahorro. This allowed a better performance in functionality from credit advisors of entity. Implementation of Bancolombia Portal 2015, as strategy for consolidation of digital banking projects.

- **Company:** Asesoftware.

Position: System Analyst

Time duration: 2014 - 2014

Job functions: Construction and support of Java applications for different project clients.

Job achievements: Analysis, design and development of Message Logging System Project, by mean of use of Web Services, JSF and Oracle 11g for Seguros Bolívar, to give a mechanism of traceability of the corporative, internal and external mails.

- **Company:** ISSC - IBM.

Position: Technical and Functional Analyst (IBM - GBS)

Time duration: 2012 - 2014

Job functions: Java application development.

Job achievements: Implementation of the redesign of Fondo Nacional del Ahorro Portal 2013 version, as the corporative image renovation after 10 years. Migration from WebSphere Portal 6.1 to 7, updating platforms and technologies in portal themes and skins using PageBuilder technology. Support and configuration of testing and certification environments for Smallworld, Metasolv and ASAP, as part of the Transformation from Copper to Optic Fiber in Empresa de Telecomunicaciones de Bogotá.

- **Company:** ISSC - IBM.

Position: IT Specialist (IBM - GTS)

Time duration: 2009 - 2012

Job functions: Giving support to monitoring platforms installed in servers of different clients.

Job achievements: Analysis, design, implementation and maintenance of internal Java applications under WebSphere Application Server, between them: Scaling Management Module for Command Center, as initiative for operative work reduction, the Change Management Log for SabMiller project, that maintained information as execution project contract condition, and Backup Logging for Tivoli Storage Manager, resolving a manual operation problem with and automation system.

- **Company:** Softtek Renovation.

Position: Software Development Engineer

Time duration: 2008 - 2009

Job functions: Construction of Java applications for different project clients.

Job achievements: Design and implementation of lands and crops reporting using iReport and JasperReport for Technical Management of Sistema de Información Cafetera (SICA) with Excel and PDF exportability from web environment, by mean of SQL Oracle queries and XML as data interchange format. Analysis, design and implementation of desktop application for registering and accounting articles with bars code, used in gathering centers for inventory in Federación Nacional de Cafeteros.

- Company:** Colombia Móvil S.A. E.S.P (Millicom - Tigo).
Position: Software Development Engineer
Time duration: 2008 - 2008
Job functions: Execution of project of mobile devices stock conciliation.
Job achievements: Execution of freelance project of analysis, design, and development of Java web application for mobile devices stock conciliation, sales registering of retail dealers, local sales registering and ERP SAP databases, allowing sales supporters to validate information and verify differences.
- Company:** Melexa S.A.
Position: Programmer
Time duration: 2007 - 2008
Job functions: Development and maintenance of internal business applications.
Job achievements: Design of network map of the company, as proposal for resolution of hardware resource organization. Researching and execution of WSUS project to centralize software updates of final user machines, with and enhance of 80% of network internal traffic. Execution of Minimum Sales Suggestion Project under AquaLogic BPM to allow the comparison of budgets and final sales in the different product lines for better stock management. Beyond usual functions, hardware and software supporting of servers and final user equipments was executed, too.

ACADEMIC STUDIES

Complementary Studies

Developing Applications with Google Cloud Platform Specialization
 Coursera (2018)

Oracle Certified Associate/Professional Java SE 7 Programmer
 Oracle University (2013)

University Studies

Systems Engineering
 National University of Colombia, Branch Bogotá (2007)

Bachelor Studies

Technical Industrial Bachelor's Degree
 Industrial Mechanic Specialist
 Technical Central Institute La Salle (1999)

RESEARCHING PROJECTS AND APPLICATIONS

- Implementation of project prototype for ERP systems monitoring using Cloud (2018).
- University degree project: Study and analysis of the RTP protocol behavior under the UDP protocol in the sattelital transmsion of multimedia data by mean of simulation with NS-2 between ad-hoc networks (2007).

- Database Design Project, environment and applications at business level to the José Joaquín Vargas School (2006).
- Analysis and design of a Stock Management System prototype for Sorte Ltd. Company (2004).

<h3 style="text-align: center;">COURSES Y SEMINARS</h3>

- Learn microservices with Springboot. Book. Nowadays.
- Spring Framework in Easy Steps. Udemey. 2019.
- Blockchain – Smart contracts creation. National University of Colombia. 45 hours. 2018.
- Blockchain Summit Latam – Colombia 2018. Blockchain Colombia Foundation. October 17th 2018. Bogotá.
- App Deployment, Debugging and Performance by Google Cloud. Coursera. 2018.
- Securing and Integrating Components of your Application by Google Cloud. Coursera. 2018.
- Getting Started With Application Development by Google Cloud. Coursera. 2018.
- Google Cloud Platform Fundamentals: Core Infrastructure by Google Cloud. Coursera. 2018.
- Oracle Certified Java 7 Programmer Course. Global Knowledge. 80 hours. 2013.
- IBM WebSphere Portal 7.0 on Windows: installation and management. IBM. 40 hours. 2012 - 2013.
- Sun Certified Java 6 Programmer Course. Global Knowledge. 96 hours. 2009 - 2010.
- English Language: “A day in the life” Certified Program. OG Entertainment. 2007 - 2008.
- DBA and applications development with DB2. National University of Colombia and IBM of Colombia. 16 hours. 2007.
- Cisco CCNA 1 Course. Cisco Systems and National University of Colombia. 2006.
- Informatics Course: Database Administration using Microsoft Access 2000. National Service of Learning (SENA in Colombia). 40 hours. 2006.
- Informatics Course: Web design with HTML, PHP y MySQL. National Service of Learning (SENA in Colombia). 80 hours. 2006.
- Informatics Tools Handling Course: Macromedia Flash. National Service of Learning (SENA in Colombia). 40 hours. 2006.
- Web design course with Macromedia Dreamweaver MX. National Service of Learning (SENA in Colombia). 40 hours. October 2006.
- Informatics Tools Handling Course: Microsoft Excel. National Service of Learning (SENA in Colombia). 40 hours. 2006.
- Autocad 2D Course. National Service of Learning (SENA in Colombia). 40 hours. 2006.
- Informatics Course: Database design in SQL. National Service of Learning (SENA in Colombia). 40 hours. 2006.
- Basic Linux Course. National Service of Learning (SENA in Colombia). 40 hours. 2006.

- Basic and Advanced Access Course. National Federation of Traders (FENALCO in Colombia). 32 hours. 2006.
- Course of Computers and Networks maintenance. Educational Center of Computers. 2005 - 2006.
- French Language. Level I. Abroad Languages Department. National University of Colombia. 2002.
- English Language. Levels I, II y III. Abroad Languages Department. National University of Colombia. 2001 - 2002.
- English Language. Levels 1 y 2. Colombian-American Center. 2000.

<h2 style="text-align: center;">TOOLS AND TECHNOLOGIES</h2>

Used tools:

IntelliJ, Eclipse, Netbeans, RAD, WebSphere Application Server, WebSphere Portal Server, SOAP-UI, JBoss, Tomcat, WebLogic, Wildfly, Fedora, RabbitMQ.

Worked technologies:

Servlets, JSP, JSTL y EL, JSF, Struts, Primefaces, Angular, JasperReports, Spring Batch, Spring Rest, Spring Core, Spring Security, Spring Data, Spring Cloud Gateway, EJB, JAX-RS, JAX-WS, Java Mail, BPM/SOA, Maven, Gradle, Mockito, Hamcrest, Docker, Jenkins, Sonar, Git, SVN, Quartz, Google Cloud Platform, MySQL, SQLServer, Oracle, DB2, Github Actions.