ALEXANDER ESCOBAR LUNA

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PROFILE

I'm passionate about Software Engineering. Always trying to write clean, extensible and maintainable code. More than ten years of **experience** as a Systems engineer programming in languages like **Java (JEE7, Spring Boot), Python, PHP, Javascript, Node, React, SQL and T-SQL**, having the ability and knowledge to analyze, design and implement software solutions. Always trying toenhance and bring new ideas to simplify the implementation of the project. Cloud experience **AWS, GCP.** Devops knowledge **Docker and Jenkins.**

CORE SKILLS

- Java, JEE7, Spring Boot, Python, Node
- JavaScript, jQuery,React, Html5, CSS
- SQL and T-SQL
- REST Services, JAX-RS, EJB3
- Docker, Jenkins, Git,jest, JUnit, Mockito
- GCP: Compute Engine (VM), Bucket
- AWS: Lambda, S3, SQS,ApiGateway, CloudWatch
- JSF, Primefaces,Laravel, Bootstrap
- Strong understandingof Object-oriented programming
- Thorough SoftwareDevelopment Life Cycle
- Experience working in Agile environmets
- Leadership,Teamwork, Fast Learner
- Problem Solver, Excellent personal relationships

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WORKING EXPERIENCE

Senior Software Engineer.
Hexacta – GlobalLogic November **2021 / Present**

- Professional consultant for a fortune 500 American Client.
- Analyze, Design and Develop several requirements of two main Projects.
- SQL scripts, stored procedures and functions in Postgresql
- Main technology stack: Java 17, Spring Boot, Node js, Javascript, React, Postgresql, AWS (Lambda, S3, SQS, ApiGateway, Cloudwatch), Docker, Jenkins
- Perform Unit Tests by using jest, JUnit and Mockito.

Full Stack Java Developer.
Innotech Medical Industries Corp. Canadá **April 2019 / May 2021**

- Analyze, Design and Develop the brand-new image processing and viewer platform.
- Design of the system database, SQL scripts, stored procedures and functions.
- Design workflows and class diagrams.
- Development of the platform utilizing **Java JEE7, EJB3, EclipseLink 2.6, JPA 2.2, SQL Server 2016, Primefaces 7.0, XHTML, JSF 2.2, Javascript, Jquery and CSS**.
- Integrate different **C++** based SDKs with the platform by using **JNI** to connect the system with X-Ray panels and sensors.
- Integrate different C# services with the platform by using HTTP protocol to connect the system with X-Ray panels and sensors.
- Implement Socket Programming to transfer data between the Java Web App and **C++** Image processing dll.
- Multi-thread Programming.
- Design and develop the system for managing the high-frequency Generator that controls the X-Ray system.
- Perform Unit Tests by using JUnit and Hamcrest.

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Systems Engineer, Business Analyst, Software Developer.
Reactivos del Valle S.A.S (remotely), Colombia **2017 / 2022**

- Design and develop new features to meet customers' requirements
- Develop interfaces among Clinical Laboratory Instruments and Laboratory Information systems (LIS) using ASTM and HL7 protocol. These interfaces increase the laboratory production capacity by more than 60% because they save the time used to transcript the laboratory test results. Now 100% of the company customers can attend 60% more patients.
- Analyze, design and develop information systems for several clients.

Systems Engineer, Software Developer.
Arquitecsoft S.A.S, Colombia **2017**

- Analyze, design and develop "green business window" for the client C.V.C Colombia
- Develop ARQUtilities by Using **Java ADF, Oracle DB, PL SQL, Weblogic**.

Software Developer, Business Analyst.
Reactivos del Valle S.A.S, Colombia **2013 / 2017**

- Analyze, design and develop information systems for several clients.
- Develop interfaces among Clinical Laboratory Instruments and Laboratory Information systems (LIS) using ASTM and HL7 protocol. Most of the projects developed with **Java 1.6 and 1.8.**
- Communication with machines through by using sockets over TCP/IP and UDM protocols, as well as serial ports.

OWN PROJECTS

Vetec, Java web application **2016 / 2018**

Veterinary Clinical History and Laboratory Information System.
Technologies: JavaEE 7, JSF 2.2, JPA 2.1, PRIMEFACES 6.1 and T-SQL (Microsoft - SQL Server). The System has an interface with several clinical laboratory instruments to get result data directly from the machine, avoiding typing mistakes. I am still working on this web app to enhance existing and adding more features.

RCD (Solid Waste Management), Java web application **2018**

Information System to manage solid waste that is generated by constructors in the city of Cali. **Technologies**: **JavaEE 7, JSF 2.2, JPA 2.1, PRIMEFACES 6.1 and Oracle Database 11g**. The System controls the whole waste flow, from it is generated by the constructor to its disposal in an authorized place. Also, it manages the information of solid waste transportation such as the vehicle information, the driver, the time that transportation lasts and the quantity of waste that was collected to compare it with the quantity that was finally disposed of.

Biosec, C# desktop application **2018**

Information systems to validate the identity of a person.
Technologies: C#, SQL Server, T-SQL.
The System uses a biometric fingerprint reader to validate the identification of customers.
Every customer is asked for the ID card that contains a PDF17 barcode, which includes the complete customer information as the name, last name, birthday, gender and identification number. The system takes that information by using a webcam to get the PDF17 barcode picture to decrypt it. The system is useful to avoid typing mistakes when enrolling customers and to prevent fake identity.

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Other projects

- Inventory information system for clinical laboratories developed with **Java and SQL Server.**
- System for patentability analysis developed with **Python, Flask and PostgreSQL.**
- Interface among clinical laboratory analyzers and Laboratory Information Systems. **Java apps**

EDUCATION

Diploma in Applied Web Development 2018 / 2019, British Columbia Institute of Technology (Vancouver, BC, Canada)

Degree of Bachelor in Systems Engineering 2012 / 2017, Universidad Del Valle, Colombia

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