Marco Zúñiga Ugalde – Software Engineer
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I am a passionate software developer with over 8 years of experience in the field. I consider myself a highly skilled Full Stack developer, having co-founded a company in which I had the opportunity to develop end-to-end software solutions, as well as performing digital and creative design skills.

PROFESSIONAL EXPERIENCE

Director of software development, technology and innovation

Yakukua(Founder) 2016 – 2023

1. Development of a full stack software product as a service (Java/Spring/Angular):
   - Utilizing Java 8 or above, Spring framework, and Angular to develop a full stack software product.
   - Implementing server-side logic, APIs, and business logic using Java and Spring.
   - Creating dynamic and interactive user interfaces using Angular.
2. Development of a proprietary software product for business management and certification processes:
   - Building a unique software product that enables efficient enterprise administration and certification procedures.
   - Developing licensing options for clients to manage their business processes effectively.
   - Implementing robust features and functionalities tailored to the specific needs of clients.
3. Defining data models based on entities, relationships, and data requirements:
   - Identifying and defining the entities, relationships, and data requirements for the software solution.
   - Designing the database schema and data structures to support the desired functionality.
4. Designing and developing web interfaces for APIs with Java:
   - Creating web interfaces using Java to interact with APIs.
   - Implementing API endpoints and handling data exchange between the front-end and back-end components.
5. Configuring and deploying software solutions on cloud platforms for Java:
   - Setting up and configuring cloud platforms (such as AWS, Azure, or Google Cloud) to host the Java-based software solution.
   - Deploying the software product to ensure its availability and scalability.
6. Creating and maintaining databases while ensuring data integrity:
   - Designing and implementing databases using technologies like SQL or NoSQL.
   - Managing data integrity, security, and performance.
   - Performing regular maintenance and optimizations to ensure database efficiency.
7. Driving digital transformation for small and medium-sized enterprises (SMEs) through technological solutions:
   - Leveraging technological solutions, including your software product, to enable digital transformation for SMEs.

- Providing innovative and efficient tools to enhance their business operations and processes.
8. Proficiency in digital marketing, including vector art and video development:
   - Utilizing digital marketing strategies to promote your software product and reach potential clients.
   - Creating visually appealing marketing materials, including vector art and videos, to effectively communicate your product's features and benefits.

Backend Java Developer

Setrana (Shipping Transport Service) 2015-2016

- Developed a comprehensive solution facilitating file transmission and communication with shipping companies to streamline logistics and container handling processes.
- Responsible for monitoring shipping containers, generating inventories, and sending EDI files to renowned shipping companies like MSC and CMA CGM.
- Implemented tracking mechanisms for sensitive cargo export containers, ensuring secure and efficient transportation.
- Provided computer technical support, assisting users with hardware and software-related issues. Additionally, offered programming consultancy to enhance FirstGear software functionality and performance.

Full Stack Developer Java/Angular.

ECOS, Juan Santa Maria Airport 2014- 2015

- Identify and assess the risks associated with noise exposure, conduct sound level measurements at various locations around the airport, and develop comprehensive preventive measures to safeguard the well-being of individuals residing in close proximity.
- Implement an innovative approach for noise measurement at the Juan Santa Maria airport by integrating Internet of Things (IoT) technology. Develop advanced software capable of analyzing real-time noise data collected from multiple IoT sensors strategically placed around the airport. This IoT-enabled solution will provide accurate and detailed insights into noise levels at various points, allowing for a comprehensive understanding of the airport's noise profile.

Technical Consultant SAP Cloud - SAP Business ByDesign

Seidor 2013- 2014

- Led the development of the SAP Cloud Application Studio Suite, contributing to the creation of advanced extensions for SAP systems in collaboration with international clients.
- Assumed a supervisory role for Colombia Location projects, providing oversight for both ongoing initiatives and projects in the initiation phase. Conducted regular meetings with functional consultants to address inquiries and clarify specifications for system development tailored to Colombian companies.

Education

Universidad Técnica Nacional (UTN) 2010 - 2017

Bachelor's degree in Software Engineering. (Licenciatura)

- Honorable Mention Magna Cum Laude
- Bachelor's thesis: Technical study of the characteristics and offer of digital technological services based on machine learning technology in the great metropolitan area of Costa Rica in the period May 2017 to June 2018.
- Development of a platform for Automated Scholarship Records System.

Diploma in Information Technology.

Courses

- Design, drawing and Digital Illustration with Adobe Illustrator, ICAT Universidad Nacional de Costa Rica(UNA) 2016.
- CCNA – Routing and Switching Knowledge of networks, operation and programming of CISCO equipment. Cisco Network Academy 2014-2015.
- Internal Auditor based on the ISO 19011:2018 standard Global Certification Bureau 2021.
- Interpretation of Information Security Management Systems ISO/IEC 27001:2013 Global Certification Bureau 2021.

Technologies

Back end
- Java, Spring Framework, Spring Boot, Spring JPA, Spring Security, JWT, Maven, Hibernate, Docker, NodeJS, Express, Python, Flask, .Net, C# and SAP ByDesign.

Front end
- Angular, VueJS, Tailwindcss, Bootstrap, Angular Material.

Design
- Vector illustration in Adobe Illustrator or Affinity Designer. Photo retouching Adobe Photoshop or Affinity Photo.
- Design of interfaces or mockups with Adobe XD.

Databases
- SQL Server, MySQL, PostgreSQL and MongoDB.

Servers
- Deployment of cloud solutions such as AWS, GCP, Railway, Digital Ocean and configuration of Linux virtual machines.

Networks
- Network design and implementation of CISCO networks – CCNA Routing and Switching.