



Jonathan Ismael Zapata Sandoval

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"Disciplined, motivated and certain"

Recently graduated in Software Engineering of the University of the Forces Armed ESPE highly motivated and passionate for technology. I am looking for an opportunity to apply my technical and creative skills in a work environment challenging that me allow continue developing myself as professional. My aim is work in a company innovative that offers opportunities for professional growth and development. I am predisposed to providing solutions effective and scalable technologies that meet customer needs and generate a positive impact on the society.

COMPETENCES

- Management of computer tools
- Job in equipment
- Communication

Spanish 
English 
B2

Software: Excel, Word, PowerPoint, Outlook.

Programming : JavaScript, Python, React, Node js , Docker, .NET

Base of data : My Sql , Microsoft SQL Server PostgreSQL

EDUCATION

2013 - 2017

Quito, Ecuador

SECONDARY AND BACCALAUREATE (7° EGB-1°EGB)

Mejia National Institute

2017 - 2019

Quito, Ecuador

INTERNATIONAL BACCALAUREATE

Mejia National Institute

2019

Sangolqui, Ecuador

EDUCATION SUPERIOR (RECENT GRADUATE / SOFTWARE ENGINEERING)

University of the Forces Armed ESPE

EXPERIENCE PROFESSIONAL

DEVELOPMENT OF PROJECTS:

- **ECUABONSAI SALES SYSTEM:** Digital solution that facilitates the marketing of bonsais, offering an intuitive and personalized shopping experience for gardening enthusiasts.

Technology : Javascript , React.js with JSX for component structure, Bootstrap and FontAwesome for styles and icons, and a modular approach to project organization, MongoDB database

- **ROUTE 66 SALES SYSTEM:** An integrated solution that manages orders, payments and reservations, optimizing restaurant operations and improving customer experience through an agile and efficient approach.

Technology: Javascript , React.js along with Bootstrap for structure and styling, and a modularized approach to components.

- **EVENT SUGGESTION MOBILE APP:** Event Show Management Solution public and private of interest for the users of shape standardized and globalized.
Technology: Javascript , React.js along with Bootstrap for structure and styling, and a modularized approach to components.
- **INFORMATION CLASSIFICATION-APPLICATIONS BASED ON THE KNOWLEDGE:** Automate and investigate in the data public and private.
Technology : Python
- **DEVELOPMENT OF A TRAINING MODEL FOR RANSOMWARE DETECTION:** Solution of a machine learning model designed to effectively detect ransomware attacks , automates the analysis of executable files (.exe and . dll), allowing early detection of ransomware in production environments.
•**Technology :** Machine Learning , Python

CEDIA ECUADOR

- **RRAEE DATA VALIDATION STAGE PROCESS:** A meticulous process of verifying information collected from university repositories, ensuring its accuracy and consistency. This may include reviewing documents, comparing them with additional sources, and confirming the accuracy of the data before analysis and use in research.
Technology : Python
- **MARIADB and MONGODB DATABASE STRESS TESTING:** Putting databases through extreme conditions to assess their performance and stability under intense workloads. This includes simulating high transaction volume, concurrent queries, and data manipulation to determine how databases respond under peak load situations.
MARIADB Technology : MySQL Environment, Python Load Test , mysqlslap
MONGODB Technology : Python Locust , Node js , Javascript .
- **INSTALLATION OF THE SEVERALNINES CONTROL CLUSTER:** Process that guarantees the administration and monitoring of databases in a centralized and efficient manner.
Technology : Docker.
- **EDITING REPOSITORIES ON THE RRAEE BACKEND PAGE:** Modify information related to data repositories, such as adding, deleting, or updating repository information. This may include details such as the repository URL, login credentials, and security settings.
- **DEVELOPMENT OF RESEARCH LAB PLATFORM USER GUIDES :** Development and optimization of two use cases on an HPC cluster, first case, I implemented a ransomware detection model , achieving faster processing through parallelization and hyperparameter tuning and second case, I processed large volumes of climate data for anomaly detection.
Technology : Python and libraries like Scikit-learn , TensorFlow and Pandas

TRAINING COMPLEMENTARY

International English Center

Certification of participation ENGLISH CONVERSATION WORKSHOP.

SIMON BOLIVAR SPANISH SCHOOL

Participation in the intercultural experience between students from the United States and Ecuador called LANGUAGE EXPERIENCE IN ECUADOR

INTERNATIONAL MULTIDISCIPLINARY CONGRESS ON SCIENCE AND TECHNOLOGY

Assistant at the XVII International Congress ESPE 2022

GOOGLE

Assistant to the course of training: "INSPIRING STUDY CONFERENCE WITH GOOGLE".

INTRODUCTION TO CYBERSECURITY

Certification for successful completion of the CISCO Networking course Academy

INTERESTS

- ✓ Grow professionally
- ✓ Learn in the field of the technology
- ✓ Develop secure software and process automation.

GitHub repository: <https://github.com/nathan1z?tab=repositories>