Systems Engineering student Santiago de Cali, Valle del Cauca, Colombia



Education

Santiago de Cali University

2016 - 2021

Systems Engineering

SENA

2013 - 2015

Systems Technician with Emphasis on Corrective and Preventive Computer Maintenance

Experience

English - Spanish content translator

Translation of content, revision, correction and adaptation of translation from English to Spanish.

Project leader (2018 - 2019), focus on goals, deadlines and improvement plan.



Application development for format conversion, allowing the automation of a manual process and reducing equipment time in the manual conversion of different formats.

Application development (desktop and web) for the translation of strings extracted from native formats, increasing the efficiency of the team and facilitating the task of conversion and translation.



Open Source Projects Collaborator

Software development from specifications. (PNG V1.2)
Refactoring of legacy code and implementation of interfaces
Use of modern methodologies (Module Design and Dependency
Management)

Original design, made by Joan Andrés Buriticá Salazar, Santiago de Cali, Colombia





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Experience

Freelance Developer

Development of web platform focused on mobile devices for accounting records management, payroll and invoice payment, using HTML5, CSS3 and Javascript technologies for client side and server side: NodeJS and MongoDB. Use of Software design patterns, SOLID and MVC.

Customer Service

6 years of experience working hand in hand with the client, people and team, solving their doubts and supporting them in the processes they require (purchase or/and obtaining of products and services), guiding them and taking them by the hand, all thanks to the excellent treatment I give to everyone and the excellent knowledge collected from the internal processes of the organization.

Statement

Desire to learn new technologies, platforms and solutions, in addition to solving problems that affect the organization, the goal as an engineer is the resolution of problems covering areas such as: computational performance, consumption of computational resources, software maintainability and process automation, highly desirable aspects for any organization.

My highly developed focus areas have been: performance, consumption, software maintainability and process automation, applying: design patterns, SOLID principles, MVC models, module-based development, microservices, automatic dependency management and the use of standards developed by international standardization organizations.





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Highly specialized skills

- Finding and repairing memory leaks (Memory Leak) with Valgrind.
- Design, improvement and writing of documentation, even if non-existent.
- Support in the technical analysis and design of Software based solutions.
- Development and execution of projects using MongoDB (NoSQL) as database.
- Development and implementation of Loggin systems following the RFC5424 standard.
- Development and implementation of test cases (unit tests, integration tests an system tests).
- Code coverage reporting and analysis (based on both test cases and binary execution).
- Code behavior analysis from binaries (Buffer overflows and debugging to unallowed memory accesses).
- Design and implementation of meta-programming for space and runtime efficient binary generation.
- Reports and analysis of assembly code prone to improvements (necessary to reduce binary size and improve compile time).
- Implementation and evolution of continuous integration platform.
 Design and implementation of component and microservices based software architectures.
- Simplification and refactoring of large code bases. (Specialized in C/C++ and Java).
- Evaluation and testing of new solutions and computing platforms in the field of application integration, microservices, high availability and performance.



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Projects

- Development and implementation of PNG image decoder and encoder according to the specifications (PNG Standard v1.2).
- Development and implementation of decoder and encoder based on Huffman
- Coding algorithm for data binarization and encryption.
- · Development and implementation of software for conversion of PO files to XML.
- Development and implementation of database (CRUD operations support) for working on CVS files.
- Development and implementation of A* algorithm (Pathfinding).
- Development and implementation of hexadecimal editor for any type of file. (Implemented in Qt Core).
- Development and implementation of Web application focused on cell phones.
- Development and implementation of two-dimensional graphics engine, using OpenGL and SDL.
- Development and implementation of framework for the design, implementation and development of programs with rendering requirements and use of algorithms (Encryption, Compression, Pathfinding, etc ...).





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Technological experience

- Experience in the development of components and microservices.
- Experience in refactoring large code bases.
- Experience in refactoring legacy software.
- Experience in C/C++ (low level programming). Supporting standard 99, 11, 14, 17 and 20.
- Experience in Java 8, 12 and later versions.
- Experience with non-relational databases (Mongo DB).
- Experience in application development: React, NodeJS, Bootstrap.
- Experience web application development: HTML, CSS and Javacscript.
- Experience in mobile-focused web application development.
- Experience with continuous integration environments (Jenkins, Sonar, Mockito, Cucumber, Junit...).
- Experience with version control software (Git, Github, Fossy, etc ...).
- Experience with version control dynamics (Pull Request, Push, Fork, etc ...).
- Experience in web page analysis and performance improvement (Chromiun Development Tools and Lighthouse).
- Experience in the development of documentation corresponding to the executed part of the project.
- Experience in the participation of tasks of putting into production of the developed systems (preparation of delivery, implementation, support).
- Experience in maintenance of information systems.





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Technological experience

- Experience in the technical documentation of the project.
- Experience in functional analysis and elaboration of functional documentation on the project.

Customer service skills

- 6 years of experience in customer service and customer care (both physical and virtual).
- 3 years in team coordination and team multi-tasking.
- Excellent charisma, attitude, interaction and interaction with customers, teams and individuals.
- Excellent personal presentation.
- Excellent vocabulary and persuasion skills.
- Excellent writing skills, both in Spanish and English.



