CARLOS MANUEL ORTEGA CASTILLO

Software developer

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carlos-ortega-resume.web.app carlosmaor

SUMMARY

Experienced software developer with 3+ years of experience in Node.js back-end development, and leading developer teams. Skilled in core modules, Express.js, asynchronous programming, data storage, testing, Web-Sockets and MQTT. Strong OOP foundations, software architecture, and design pattern skills. Background in AR solutions in C# and C++, firmware development in C. Seeking a challenging role to deliver efficient, reliable, and secure applications.

EXPERIENCE

Lead software developer

TalO Systems

2020 - Ongoing

- I guided the development team in the project **Intel Connected Logistic Platform** (ICLP) working with Intel Corporation as outsourcing contractor for 2 years.
- I worked on writing efficient, scalable, and maintainable server-side code using Node.js and JavaScript for ICLP.
- I participated on firmware development for ICLP by using the programming language C.
- Augmented reality software development for Hololens device in C++ and C#.

Back-end developer Node.js junior

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2018 - 2019

- Building and maintaining RESTful web services and APIs.
- Participating in code reviews and ensuring code quality.
- Troubleshooting and debugging code.

Nariño Vive Digital Monitor

Universidad de Nariño

2015 - 2016

- Developing and maintaining firmware for devices such as sensors, actuators, and embedded systems.
- Collaborating with hardware engineers to ensure firmware is compatible with hardware design.

EDUCATION

Electronic engineering

Universidad de Nariño

2012 - 2018 Pasto, Colombia

- Laureate final degree research.
- Honours Degree and distinguished Graduate

PROFESSIONAL SKILLS

Leadership | Effective Communication | Team Work | Critical thinking | Creativity

WEB TECHNOLOGIES

Angular | HTML5 | CSS3 | Node.js | Express.js | MongoDB | SQL | AWS | Firebase | Azure | Docker

PROGRAMMING SKILLS

Javascript/Typescript
C#
SQL
C++/C
Java
Python

LANGUAGES

- **English**, Common European Framework B2. Certificate BRITISH COUNCIL Colombia IELTS.
- **Spanish**, Native

PUBLICATIONS

Comparative analysis between embedded-spaces-based and kernel-based approaches for interactive data representation.

SDAS Group and Universidad de Nariño

2018 Cartagena, Colombia

- Published in the Colombian Conference on Computing (CCC2018).
- Scientific publication Scopus Q3.
- **See paper...**

Angle-Based Model for Interactive Dimensionality Reduction and Data Visualization.

SDAS Group and Universidad de Nariño

2018 Habana, Cuba

- Published in the International Workshop on Artificial Intelligence and Pattern Recognition (IWAIPR 2018).
- Scientific publication Scopus Q2.
- **See paper...**

Generalized Low-Computational Cost Laplacian Eigenmaps.

SDAS Group and Universidad de Nariño

2018

- Published in the International Workshop on Artificial Intelligence and Pattern Recognition (IWAIPR 2018).
- Scientific publication Scopus Q2.
- **See paper...**

REFEREES

Francisco Martinez
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