CARLOS MANUEL ORTEGA CASTILLO

Full stack software developer

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SUMMARY

Accomplished Full Stack Developer with over 5 years of experience in creating scalable, high-performance applications. Expertise in server-side development using a variety of languages and frameworks, with a strong background in cloud infrastructure and automation. Experienced in shell scripting for CI/CD and system management. Proficient in building dynamic and responsive web applications, leveraging modern front-end technologies and state management techniques. Solid foundation in object-oriented programming, software architecture, and design patterns, with additional experience in AR solutions and firmware development. Seeking a challenging role to drive innovative and reliable solutions.

EXPERIENCE

Full stack software developer

Tuix GmbH

📅 2022 - Ongoing

- **Backend :** I worked with a range of technologies including TypeScript with NestJS, GoLang, and Python with Django, focusing on building and maintaining scalable server-side applications. I utilized PostgreSQL for database management and documented APIs using Swagger.
- **Cloud infrastructure :** Deployments were done primarily on AWS, using EC2, S3, API Gateway, Lambda, and Secrets Manager. I extensively utilized Terraform for infrastructure automation, enabling efficient and consistent deployment of resources across environments.
- **Frontend :** Experienced in building dynamic web applications using Vue.js, Nuxt.js with Pinia, React, and Next.js with Redux. Skilled in creating responsive interfaces, optimizing performance, and leveraging state management for enhanced user experiences.

Lead software developer

TalO Systems

📅 2020 - 2022

- 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#.

PROFESSIONAL SKILLS

Leadership   Effective Communication
Team Work   Critical thinking   Creativity

WEB TECHNOLOGIES

Node.js   NestJs   Express.js   Django
MongoDB   TypeORM   MikroOrm
Gorm   Docker   RabbitMQ   GraphQL
PostgreSQL   AWS   Firebase   Vue
Nuxt   NextJs   React   HTML5   CSS3

PROGRAMMING SKILLS

Javascript/Typescript	●●●●◐
Shell	●●●●◐
Golang	●●●●○
Python	●●●●○
C#	●●●●○
C++/C	●●●●○

LANGUAGES

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

- **Spanish**, Native

Back-end developer Node.js junior
Wanem

📅 2018 - 2019

- Building and maintaining RESTful web services and APIs based in Express and mongo DB.
- 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

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

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