Cristopher Marcelo Orellana Jara

Software engineer

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Summary

I have been in the software industry for 10 years, starting as a freelancer during my early experiences, then entering the industry and climbing the career path through positions of developer, technical lead, and software architect.

English

Advanced (https://www.efset.org/cert/PMSFYm)

Experience

Tsoft, Santiago - *Software Architect*
DECEMBER 2021 - MAY 2024

- Generation of technical architecture and planning client initiatives, ensuring alignment with business and technological objectives.
- Inventory management between systems using S3 buckets, lambdas and SQS , storing the domain data in DynamoDB
- Diagramming solutions using the C4 standard, providing a clear and structured view of systems and their interactions.
- Asynchronous implementation using event-driven architecture using AWS SNS, SQS and ElastiCache, enhancing system scalability and responsiveness.
- Establishing a strong technical link with the client, assuming full ownership of the software factory, ensuring quality and timely project delivery.
- Use of hexagonal architecture, implemented in TypeScript, to facilitate code maintainability and scalability.
- Collaboration and discussion with solution providers on technical decisions, ensuring robust solutions aligned with best practices.
- Use of Node.js for generating server-side functions and establishing HTTP connections with a headless CMS, improving content management efficiency and flexibility, server-side functions deployed using Lambdas.
- Implementation of AWS services and Lambda functions to deploy serverless applications and server-side rendering, reducing infrastructure costs by 40% and improving page load times by 30% due to the ElastiCache implementation.

- Consuming Google APIs and sending information to React applications using the Remix framework, improving integration and development speed, Deploy in S3 Buckets.
- User persistence using ElastiCache Redis and server-side requests to control user profiles, resulting in a 25% improvement in profile access speed and enhanced security in handling sensitive data.

Globant, Santiago - *Nodejs Senior developer*

JUNE 2021 - NOVEMBER 2021

- Implementation of MongoDB and ElasticSearch to handle large volumes of user and statistics data, improving data query and storage efficiency.
- Azure functions working with message queues to process thousands of requests efficiently and manageably, ensuring a scalable workflow.
- Continuous deployment using Jenkins in different environments, integrating automatic data validators during the CI/CD process to ensure data quality and integrity.
- Backend API development in Node.js to control complex business logic and return dynamic data to the client-side, ensuring robust and secure communication.
- Creation of administration tools and interactive dashboards in Angular to control all critical aspects of the system, using Azure functions and CloudScript to automate tasks and improve real-time monitoring.

Samurai E-Commerce, Santiago - *BI - CTO*

SEPTEMBER 2020-JUNE 2021

CTO FEB. 2021 – JUNE. 2021

- Refactoring and optimizing a Laravel application. Implementing asynchronous functions to significantly improve application performance. This application was hosted on a Digital Ocean VPS and stored data in a MySQL database.
- Implementation of an administration interface in Angular to control customer tickets and requests deployed using S3 .
- Implementation of RESTful APIs in Node.js using JWT and multiple middleware to enhance server application security and control. The database used was MongoDB.
- Load testing for new services using Artillery Js to obtain performance metrics.
- Generation and implementation of microservices on the front end using HTTP and a RESTful API.
- Migration from SQL to NoSQL due to performance issues. The NoSQL database is in a MongoDB cluster.

BI Manager SEP. 2020 – FEB. 2021

- Creation of dashboards in Angular using a Node.js/Express API with middleware to validate authorization. This is hosted using S3 and API Gateway to expose Node.js in lambda and DynamoDB.
- Capturing more client-side events and sending new events to the API. The API was adapted to receive all new events in the data controller.

- Use of BI tools like Tableau for dashboard creation and data analysis using AWS Data Warehouse.

SmartAgro, Curicó - *Full stack developer*

JANUARY 2019-SEPTEMBER DEL 2020

- Real-time monitoring of server and service status using socket.io and a REST API in Node.js.
- Design and implementation of new complex modules. These modules were developed in PHP and MySQL.
- Implementation of maps to capture client positions on their lands and provide information about them.
- Storing information on a MySQL server.

Europcar Tattersall, Santiago - *E-commerce Analyst*

FEBRUARY 2019 - APRIL 2019

- Coordination with external agencies for the progress of software and hardware orders.
- Test and result analysis using Google Analytics.
- Development and management of web services and APIs.

Oficina postal, Curicó - *Project Manager*

JANUARY 2018-AUGUST 2018

- Determination and estimation of time, effort, and budget for internal projects.
- Development of a client-side rendering system (data analysis + maps).
- Management and control of the company team.

Coraza, Talca - *Mobile developer*

AUGUST 2016- MARCH 2017

- Mobile app with social network API connections, focused on security.
- Development of mobile applications using Ionic and Node.js backend deployed in AWS EC2.
- Optimization of content delivery using AWS CloudFront, ensuring fast and secure content distribution.

Itecsoft, Talca - Linares - *Full stack Developer*

JULY DEL 2015-JANUARY DEL 2017

- Full stack developer with the PHP - jQuery - HTML - CSS stack.
- Agricultural platform for control and management of maps with relevant information.

Freelancer - Remote - *Full stack Developer*

OCCASIONAL since 2014

- Full stack developer with the PHP - jQuery - HTML - CSS stack.
- Backend in Node.js.
- Projects with Python in machine learning.
- Mobile apps using Ionic.
- Integration APIs with PHP and Node.js.

- System and database migrations.

Education

Universidad autónoma de Chile, Talca - *Computer Engineering*
MARCH 2014-DECEMBER DEL 2019