



Ellian Carlos Oliveira Costa

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Results-driven Customer Obsessed Software Engineer specialized in backend development with expertise in TypeScript, design patterns, and microservices. Proficient in multiple languages, majorly TypeScript, Kotlin, C++ and Python. Experience working with SQL and NoSQL databases. Experience with System Design for Scalable, Event-Driven and Highly Available architectures. Committed to continuous learning and passionate about problem-solving. I want to positively impact the environment, world, and people by innovative ideas and sharing knowledge.

EXPERIENCE

Software Development Engineer II | *Amazon*

May 2024 - Current

Working with Scalable Event Driven Systems to solve real world problems. Deploying fully tested code to production environments with fast and reliable CI/CD.

Senior Software Engineer - Backend | *CI&T*

Dec 2022 - May 2024

Responsible for creating, managing and supervising microservices in a serverless cloud provider. Technical reference for teams in typescript coding, design patterns, architecture review, integration and unit testing, creation of pipelines, deploy of services, creation of REST API, scheduled jobs and event driven services. Focused on backends and service architecture.

- > Designed and implemented a cloud environment for microservices with databases, networks, certifications, domain names, queues and events across multiple domains to handle up to 1M requests a day, across multiple gateways.

- > Implemented the orchestration pattern with multiple microservices to handle asynchronous action.

Fullstack Developer | *Tokenlab*

Mar 2020 - Dec 2022

Responsible for developing serverless backend microservices and frontend applications, mostly REST APIs to serve both Web/Mobile. Using Angular in Frontend and NestJS in the backend, fully developing application from end to end. Modelling full services architecture, like database modelling and normalization, deploy, scaling, creation of pipelines, etc.

- > Designed and implemented a cloud environment for microservices with databases, networks, certifications, domain names, queues and events across multiple domains to handle up to 1M requests a day, across multiple gateways.

- > Developed an authentication microservice implementing the OAuth2 protocol and support for login and signup with Facebook, Apple and Google.

- > Developed a microservice for the backend handling of in-app purchases for Android and iOS devices.

- > Implemented an email template creation and edition system to handle non-CRM communication with users.

Programming and Robotics Instructor | *Ctrl+Play*

Jul 2019 - Feb 2020

Robotics and Programming Instructor for children, teenagers, and young people. Always using active teaching methodologies such as PBL, ABD, Design Thinking, GBL, etc. Additionally, developing a framework for young people and children to create their own projects within it. Always creating projects based upon the Brazilian National Curriculum (BNCC) and the ONU 17 sustainable goals.

EDUCATION

Universidade de São Paulo

B.S. Information Systems - with Academic Honour

2020 - 2023

GPA: 3.6/4.0

COURSES AND CERTIFICATIONS

Deep Learning - DeepLearning.ai and Coursera Certification of Deeplearning courses.

Building Containerized Applications on AWS - AWS and Coursera Course.

AWS Fundamentals: Building Serverless Applications - AWS and Coursera Course.

SKILLS

Languages: C/C++, Typescript, Kotlin, Javascript, Python, HTML/CSS, \LaTeX

Providers and Frameworks: AWS, Apple IAP, GCP, React, Nextjs, Nestjs, Spring, Angular.

Tools: Jest, Artillery, Serverless, Terraform, Localstack, Docker, Containerization, Kubernetes, RXJS, Tailwind, Pandas, Numpy, Scipy, Tensorflow, Pytorch, Nix and NixOS.

Miscellaneous: Problem Solving, Architecture, Computational Models, OKR elaborations, Design Thinking, Machine Learning, CNN, RNN, GAN, Transformers.

Soft Skills: Communication, Adaptability, Documentation, Patience and Teaching.

PRIZES

Academic Honor - Universidade de São Paulo (2024).

Bronze Medal - OBMEP 2019 (Brazilian Math Olympiad).

Bronze Medal - OBA 2018 (Brazilian Astronomical and Astrophysical Olympiad).

Bronze Medal - OBMEP 2018 (Brazilian Math Olympiad).

Honorable Mention - OBMEP 2017 (Brazilian Math Olympiad).

Honorable Mention - OBMEP 2016 (Brazilian Math Olympiad).

LANGUAGES

English: Fluent (Between B2 and C1).

Portuguese: Brazilian Native Speaker.

Spanish: Intermediate, can listen, read and write well.

Libras: Beginner, can sign simple phrases and basic communication.

Japanese: Beginner, learning hiragana and katakana.