

# FERNANDO OLLE

## PROFILE

**I am a software engineer who has been building and improving existing systems in many fields since 2019, developing solutions for the financial, big-data, HR, and other industry sectors.**

I have also dabbled in teaching and scientific research. Throughout my career, I have developed several projects of all sizes and degrees of complexity, becoming a technical reference in every company or client I have worked for.

I also have experience managing teams and developing areas and people for new products entering the market, contributing to tech communities and contributing code to open-source projects, scientific research developing tools for AI research, and teaching and mentoring future Computer scientists.

### Skills

- ♦ JS / TS
- ♦ NestJS
- ♦ AWS
- ♦ Testing frameworks
- ♦ Kubernetes
- ♦ Docker
- ♦ Databases
- ♦ Java
- ♦ Spring Framework
- ♦ Github and Actions
- ♦ Python
- ♦ C/C++
- ♦ Unit Tests
- ♦ Integration Tests
- ♦ End-to-End Tests

EMPLOYMENT  
HISTORY

## Lead Backend Developer at Solu, Remote (Brazil)

October 2024 — Present

Responsible for migrating the MVP project from Ruby on Rails to NestJS, remodeling our AI workflows using big-data APIs and LangChain, and adding a robust architecture to improve our product's maintainability, scalability, and reliability.

Responsible for designing and adapting our data model to a new database format, using PostgreSQL, AWS S3, and Redis, streamlining complex processes, and improving reliability.

Responsible for maintaining CI/CD pipelines with Terraform and GitHub Actions and monitoring with Sentry, providing an easy-to-use experience for deployment and tracking within our systems.

Responsible for designing new AWS Cloud infrastructure with key infrastructure details, such as using EC2, S3, Security Manager, and other cloud services.

Responsible for choosing and integrating tools to accelerate product delivery like Resend, Auth0, WeGlot, Stripo, Prismic, and others, giving flexibility to product teams and maintaining a high throughput of developers' deliverables.

Responsible for implementing Unit Tests, Integration Tests, and End-to-end Tests using Jest and Supertest, making changing and iterating on our systems safer for the engineering teams.

## Software Engineer at CashMe, Remote (Brazil)

September 2022 — October 2024

Responsible for designing and implementing a company's first performance-sensitive, Java Spring, big-data pipeline that filtered all the home-equity proposals within tight time windows as a cron job, ranking each based on key prioritization aspects for better UX on the sales team side, saving countless hours for both sales teams and high-importance clients.

Responsible for developing company internal Java library to integrate backend systems to Microsoft Dynamics 365, impacting developers company-wide with a complete solution for complex operations like all types of batch requests that were implemented from a low-level, all the way to an ergonomic high-level API.

Responsible for integration monitoring tools like New Relic, Grafana, and ArgoCD, with our CI/CD system with GitHub Actions, and Kubernetes cluster, giving developers a better way to track bugs and find critical points on our components.

Responsible for developing the company's custom message and SMS chat solution using Java and Spring framework, giving the end user a better UX, and removing our reliance on third-party tools, generating savings of nearly half a million R\$ per year.

Responsible for implementing backend solutions using Java and Springboot reducing client friction, and vastly improving the number of available proposals for the sales team.

Responsible for implementing Unit Tests, Integration Tests, and End-to-end Tests using JUnit, Mockito, and Wiremock, making adding functionality and changes to our components safer and faster.

## Software Engeneer at Close-Up International / ScalaSystems, Remote (Argentina)

February 2022 — October 2022

Responsible for migrating and redesigning authentication and data pipeline systems of top pharmaceutical players' data and sales niches from MySQL to OracleDB, generating substantial savings on cloud bills with the migration to the Oracle Cloud.

Responsible for implementing the authentication system with ABAC and RBAC rules, using Java and the Spring framework, securing company information, and improving the system's maintainability.

Responsible for maintaining and implementing new features on Java Springboot backend, giving non-technical users access to powerful big-data processing tools like NiFi, and making CloseUp's product modern and attractive to new partners.

Responsible for maintaining and improving CI/CD processes using Jenkins and Groovy, adding features such as auto versioning tags on the front end, thus adding clarity for the user when a new feature was available.

Responsible for implementing Unit Tests and Integration Tests using JUnit and Mockito, making the iteration of our product safer and faster.

## Frontend Developer at TeleColeta / OlleLabs, Remote (Brazil)

January 2022 — February 2022

Responsible for designing and implementing the company's web portal using NextJS for better SEO, and Vercel for easy deployment. I've implemented integrations with Google's Youtube API and GraphCMS for easy company content maintainability, giving them an easy way to communicate with clients.

## Full stack Web Developer at MerTIns Tecnologias , Remote

March 2021 — August 2021

Responsible for implementing a data synchronization module that checked for error logs on clients' self-hosted versions of our Java JFRM system and mismatched data through Mongo-DB and PostgreSQL instances, giving speed and often preemptive approach to bug fixing, thus improving significantly the client's experience with our product.

Responsible for implementing the help desk component of Java JFRM framework, thus removing the company's dependency on BugZilla, generating hosting costs, and improving clients' experience.

## Fullstack Web Developer at Cangucu FM / OlleLabs, Remote (Brazil)

December 2021

Responsible for developing a web portal app for a local radio company, featuring an NGINX reverse proxy enabling radio playback within the website with full HTTPS support and a custom Content Management System using GraphCMS with GraphQL. Server-side rendering with NextJS and Vercel, a system for posts and comments allowing anonymous and signed comments.

I spearheaded the development of all these features and initiated implementing a Radio Schedule system before the project stalled.

## Computer Science Tutor at Federal University of Pelotas - UFPel, On-Site (Pelotas, Brazil)

March 2019 — December 2019

Responsible for teaching and helping first-year students with algorithms and data structures, C/C++, Python, and SQL.

Responsible for teaching and helping visually impaired students with algorithms and data structures, C/C++, Python, SQL, and math, or assisting with any college-related topic.

### RESEARCH WORK

## Researcher at BDR-ID - UFPel and UFSM , Hybrid (Pelotas, Brazil)

May 2023 — December 2023

I was responsible for developing a Local Document Store, S3-like data storage using NodeJS, for rapid image filtering and classification using our file-stored information about said images to train AI Models on our game-changing image/data collection of lesions related to diabetic retinopathy.

CONTRIBUTIONS TO  
THE COMMUNITY

## Open Source Contributor at react-social-icons

January 2025

Contributed to the open-source ReactJS code base, adding the integration to DEV.TO social network. Tested and opened the pull request following the project's guidelines.

## Conference Speaker at CodingFerpa, On-Site (Fernandópolis, Brazil)

December 2024

I gave a talk at the CodingFerpa tech event about Java, LangChain4j, and how the JVM is a fantastic environment for building LLM and AI-centric apps.

## Writer at dev.to / DEV Community

December 2024

Enticed by my peers, [Cultural-Javism](#), my talk at Java in Rio became my first post on *dev.to* platform, which awarded me the badge of Author of the Week on the global *#Java*. Also my article was shared by *dev.to* official X (former Twitter) account.

## Conference Speaker at Tech in Rio / Java in Rio , On-Site (Rio de Janeiro, Brazil)

November 2024

I gave a talk at the Java in Rio tech event about Modern Java, ramped advancements in the Java language and JVM in the last few years, and how the language can feel fresh and modern by today's standards.

EDUCATION

**Bachelor's Degree in Computer Science at Federal University of Pelotas (UFPel)**

August 2018 — March 2024

**Post Advanced English Language Course at CCLS**

February 2021 — August 2021

**Spring framework and Angular Bootcamp at Santander, Digital Innovation One**

March 2021 — September 2021

**Web Development Technologist Course at Federal Institute of Rio Grande do Sul (IFSul)**

March 2021 — November 2021