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SOFTWARE ENGINEER

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PRESENTATION

As a software engineer, my fundamental principles are continuous learning and team collaboration. I have professional experience in web development, web scraping and containerization.

In my free time, I like to develop personal Open Source projects and attend workshops, conferences and hackathons. In addition, as a member of the Open Source Software Club of the University of Cordoba, I contribute to the organisation of workshops and the annual conference SalmorejoTech. This commitment allows me to keep up to date with the latest trends in the sector.

As I said before, continuous learning is one of my principles as a software engineer, that's why I am currently expanding my knowledge in clean architecture, testing methodologies, infrastructure and IoT technologies like LoraWan or microcontroller programming. I strongly believe in the importance of a positive and supportive work environment, and consider it a key factor in achieving collective success.

Whether contributing in team environments or independently, I am prepared to bring value to the company and continue to develop myself to be a better professional every day.

PROFESSIONAL EXPERIENCE

Junior Software Developer
Jul. 2022 - Jan. 2023   Postal3 (Remote, Spain)

While I was studying for my bachelor degree, I was part of the company's development team (part-time). My role as a developer was to implement internal applications and scripts for use by other teams, such as the marketing team.

Main points:
- Creation of a control panel for the marketing team.
- Development of script for web scraping.
- Direct contact with the marketing team and experience with Facebook Ads and Google Ads APIs.
- We use Python and PHP, with Django and Symfony frameworks for the backend and Next for the frontend. Git as version control.
- All developments were containerized for subsequent deployment in docker.

Technologies and tools: NextJS, Django, Symfony, PHP, Python, TypeScript, React, Docker, Docker Compose

Web Developer Intern
Jun. 2022 - Jul. 2022   SC&DEGENER (Remote, Spain)

Internship of 2 weeks in which I have participated in the development of a website in a team with other interns. We had to learn to organise ourselves and work as a team to move the project forward.

Technologies and tools: PHP, React, WordPress

EDUCATION

Sep. 2021 - Jun. 2025   Bachelor of Science in Computer Engineering   University of Cordoba

ACADEMIC PROJECTS

Online teacher system with Next.js for
www.spanishbycelia.com

Spanish classes purchase and booking system built in Next.js synchronized with Google Calendar, Calendly and PayPal for the payment gateway. The system has been deployed and in production since February of this year on the website of an online Spanish teacher.

Key features:
- Authentication and role management with NextAuth and the Google provider.
- Interactive calendar to organise the teacher's available slots and synchronise them in real time with google calendar.
- Invoice view generation for each student.
- Payment gateway with PayPal and student control centre that allows you to change the hourly rate of each student.

Technologies and tools: NextJs, Vercel, Typescript, Tailwind, NextUI, NextAuth, PayPal

Summer Camp Manager

Web application for summer camp management. It is built using Clean Architecture principles, with a clear separation of concerns between the presentation layer, the application layer and the data layer. The business logic is implemented using TDD.

Key features:
- Authentication and role management.
- Backoffice that allows to register camps, activities and monitors in the system.
- Camp registration management.

Technologies and tools: Java, JUnit, J2EE, Apache Tomcat, HTML, CSS, JavaScript, MySql, TDD, Clean Architecture

E-Commerce System with AWS & Odoo

E-commerce system built with Odoo ERP/CRM and deployed on AWS.

Key features:
- ERP/CRM and e-commerce platform.
- *AI-based chat assistant:* The chat assistant can answer customer questions, provide assistance and even complete transactions.
- *Social media automation*: The system can automatically publish content to social networks, such as new products, promotions and blog posts.
- I*ntegration with Trello and Slack:* The system can integrate with Trello and Slack to manage incidents and communicate with team members.
- *Natural language query tool:* The tool allows users to query the database using natural language, such as "What are the best-selling products?"

Technologies and tools: Odoo, Python, AWS, AWS Lambda, AWS RDS, AWS API Gateway, AWS EC2, AWS Amplify, Zapier, OpenAI API, HTML, CSS, JavaScript, Docker, Docker Compose, Chart.js

PERSONAL PROJECTS

CLI Tool

local-k8s-cluster

CLI tool that makes it easy to set up and manage your own Kubernetes cluster on your local machine. With local-k8s-cluster, just define your cluster in a simple YAML file (k8s-cluster.yml) and run a single command to get it up and running.

Technologies and tools: Kubernetes, Vagrant, Ansible, Ruby, Bash

moodownloader
CLI tool that automates the download of all the PDFs of your Moodle courses. The project has been developed using clean architecture principles and TDD methodology.

Technologies and tools: Python, Poetry, unittest, TDD, Clean Architecture, beautifulsoup4, pdfkit, robobrowser, selenium

Odoo Addon   **ai-assistant-odoo**
An open source addon for odoo which allows us to query for any information stored in our Odoo's database with natural language. This process is facilitated by a create.sql script, which contains the structure of the basic tables in Odoo. This file is also provided to ChatGPT, enabling the language model to understand the structure of your database and generate accurate queries.

Technologies and tools: Python, Odoo, Odoo Addons Framework, OpenAI API

Scrapper   **python-scraping-sims4**
Scraping project to find the best offer to buy the new expansion pack of The Sims 4, check its stock and send an email with the link of the page.

Technologies and tools: Python, beautifulsoup4, html5lib

Web/API   **mobile-shop-api**
REST API of a mobile store acting as an intermediary between a client and a MongoDB database deployed with Docker Compose.

Technologies and tools:TypeScript, Astro, HTML, CSS, JavaScript

astro-shop
Simple online store built with Astro, JavaScript for the client-side scripts, TypeScript for server-side scripts, HTML5, and CSS3. This is an open-source project aiming to provide a practical and straightforward e-commerce web.

Technologies and tools: TypeScript, Docker, Docker Compose, Express, Mongoose, MongoDB, JWT

chat-app-express
Chat Web App developed with JavaScript, Express, SocketIO and NodeJS to learn about sockets and reactive web programming.

Technologies and tools: JavaScript, NodeJS, Express, Socket.io

weather-app
Project to practise the management of a meteorological api. Made using HTML and CSS for the design and JavaScript to collect information in the form of JSON from an API.

Technologies and tools: HTML, CSS, JavaScript

ACHIEVEMENTS

Winning project of the Biotech Hackathon IMIBIC-EPSC 2023: Wristband for remote monitoring of the state of psychiatric patients.

Our team participated in a Biotechnology Hackathon and developed a solution to the challenge of remotely monitoring the state of psychiatric patients. The challenge was posed by the healthcare staff of a hospital, who were concerned about the lack of communication after discharging a patient. The team proposed a solution called the PULSE device, which is a bracelet that allows patients to send information about their emotional state using four side buttons. This information can be accessed by healthcare personnel, providing a way to monitor and support the patients without relying on mobile devices or the internet. The device aims to create a constant and easy means of communication, ensuring that patients feel connected and supported during the period between appointments.

For the development of the prototype, we learnt about AWS, LoraWan communication and IoT.

We had to present our prototype to a technical jury and defend the feasibility of the project. That made us learn communication of ideas skills.

Technologies and tools: Python, HTML, CSS, JavaScript, C++, Arduino, AWS, AWS Lambda, AWS RDS, AWS Amplify, AWS API Gateway, LoraWan, AWS IoT Core

LANGUAGES

- Spanish. Native.
- English. Conversational.