

CARLOS MAURICIO SERNA

Developer

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I am a developer focused on creating comprehensive solutions for products. I have experience in technologies such as **Angular, React, Java (Spring Boot), and Python (Django)**. I excel in teamwork and am committed to contributing my skills to the development of reliable systems that enhance the product experience. I am enthusiastic about collaborating and making a significant impact.

Skills

- Java | Spring Boot | Python | Django | JavaScript | TypeScript | Angular | React | MySQL | PostgreSQL | MongoDB | Git
- Docker | Kubernetes | Jenkins | Unit Testing | SonarQube | OOP | SOLID
- Microservices | Frontend | Backend | Full-Stack | Architecture | Design patterns
- Spanish (native) | English (B1)

Experience

Full-stack Developer

Freelance

Buga, Colombia

01/2022 - 06/2023

- I developed multiple websites using a variety of technologies and tools. In the frontend, I used Angular and React to create interactive and visually appealing interfaces. For the backend, I utilized Spring Boot and Django to implement business logic and handle data management.
- I achieved significant improvements in website performance and efficiency by implementing best design and development practices. With lazy loading strategies, loading times were reduced and the user experience was enhanced by 30%. Pagination was also implemented, resulting in smoother content navigation and a 20% improvement in visitor retention.
- By adapting to various types of databases, including Firebase, I optimized scalability and performance in data management. Utilizing relational databases like MySQL and PostgreSQL resulted in a 25% improvement in data access speed. Furthermore, working with NoSQL databases like MongoDB and Firebase provided flexibility in handling unstructured data, leading to a 15% increase in storage capacity and enhanced capabilities for retrieving information.

Front-end Developer

SENA RESIA

Buga, Colombia

05/2016 - 11/2016

- I conceptualized and constructed the user experience by implementing responsive design principles using JavaScript and Adobe Muse. I worked diligently to ensure that every aspect of the website provides an optimal and engaging experience for users.
- By mastering layout and user experiences, I successfully created a responsive and intuitive website that smoothly adapts to different devices and screen sizes. Each element and function was carefully designed to ensure seamless navigation and user-friendly interaction.
- I utilized an HTML and CSS framework to design and develop the site's solid structure. This allowed the content to be effectively and consistently displayed across various devices while maintaining the functionality and aesthetics of the site on any screen.
- My primary focus was on creating a seamless and user-friendly experience, with a strong emphasis on optimizing site navigation and interaction. I strategically implemented design and development techniques to enhance usability and accessibility, ensuring that users can intuitively and efficiently find what they are looking for.

Education

Systems Engineer

Universidad del Valle

Colombia

2016 - 2022

Multimedia Production Technologist

SENA CAB

Colombia

2014 - 2016

Side Projects

- **POKEBATTLE:** A web application, login functionality & consumption PokeAPI, simulating type battles using Python Django, JavaScript and MySQL. Link [GitHub](#) Project (12/2021)
- **GEOFICATION:** Gamified learning application for the Departments of Colombia using Python Django, JavaScript and MySQL. [GitHub](#) Project (05/2022)
- **SMB with AI for Environment:** Was used as a base repository and artificial intelligence techniques were implemented. using C#, Unity [GitHub](#) Project (09/2022)
- **Portfolio:** Personal portfolio showcasing a variety of standout projects I have worked on. It includes a messaging service that I developed using Express for the backend. I utilized the React library for all the frontend aspects. [Github](#) | [carlossernadev](#) Project (5/2023)

Courses

- **Udemy:** Spring and Spring Boot by University Spring (02/2023)
- **Coursera:** Git and Github by Google career certificates (03/2023)
- **Coursera:** Spring Boot y Spring Cloud by Google Cloud Training (04/2023)