

# Alexandre Serra

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## Experience

Jan 2023 – Present

@ Cleanwatts

Business: Renewable Energy

Communities

Company size: ~100

### Full-Stack Software Engineer

- Contributed significantly to the planning, development, and successful deployment of end-to-end features, demonstrating effective collaboration skills
- Achieved a maintainer status on Kiplo, an Angular project aimed at managing renewable energy communities. Became responsible for overseeing the quality of the end product
- Elevated the status quo of frontend development on the company by leveraging modern techniques such as optimistic updates
- Spearheaded the implementation of automated testing procedures, resulting in a significant reduction in bugs and enhanced product stability

Mar 2022 – Aug 2022

@ Staruplo

Business: Spatial information

Company size: ~5

### Full-Stack Software Engineer

- Improved the development workflow by enabling continuous integration and continuous delivery through Github Actions
- Designed and produced a new frontend application using React, which greatly enhanced the user experience and overall speed, by leveraging caching and revalidation techniques through React Query

Feb 2021 – May 2022

@ INESC-ID

Business: Education

Company size: ~250

### Research Collaborator on a flood forecasting system

- Shipped features on a Django web portal with long-running background tasks, server-to-server communication and geoinformation manipulation

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## Education

Sep 2020 – Nov 2022

@ Instituto Superior Técnico

Sep 2017 – July 2020

@ Universidade de Coimbra

### Master's degree in computer science and engineering

### Bachelor's degree in informatics engineering

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## Personal Projects

Jan 2021 – Dec 2022

@ HandOnVitals

Business: Medical devices

### Medical device capable of measuring 5 vital signs

- Developed a Django backend application to store the device measurements, and a Svelte web application to visualize and manage the results
- Managed a €8.000 grant to support the development of the project

Sep 2019 – Present

@ SportsIn

Business: Sports

### Sports events aggregator

- Developed a Flutter mobile app that aggregates sports events and enables users to search for nearby events through a map or list view
- Created a Django web service that allows event organizers to insert and manage events into the system

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## Skills

Languages

Portuguese (native), English (proficient), Spanish (conversational)

Programming languages

Javascript, Node.JS, React, Angular, .NET, Python, Django, TailwindCSS

Hobbies

Play water polo at Sporting Clube de Portugal (Portuguese first division)