

# Alexandre Serra

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## Experience

Jan 2023 – Present

@ Cleanwatts

### Full-Stack Software Engineer

- Contributed to the successful migration of legacy technologies to modern ones
- Played a pivotal role in developing end-to-end features that ultimately helped to achieve a CO2 reduction of more than 18,834 tons to date
- Worked collaboratively as part of an 10-member team, successfully delivering features that create positive impact on renewable energy communities

Mar 2022 – Aug 2022

@ Staruplo

### Full-Stack Software Engineer

- Improved the development workflow by enabling continuous integration and continuous delivery
- Secured the Node.JS backend against security threats and improved the APIs
- Redesigned the frontend application using React, enhancing the user experience

Feb 2021 – May 2022

@ INESC-ID

### Research Collaborator

- Worked under a scholarship on a project that aims at improving the forecasting capabilities of flood events
- Programmed a Django web portal alongside the civil engineering team and have 1 published paper and another pending

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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

Feb 2021 – Present

@ HandOnVitals

### Medical device

- Engineer a medical device capable of measuring simultaneously 5 vital signs
- Develop solutions to support the device, including a Svelte app to visualize its results
- Managed a €8.000 grant to support the development of the project

Sep 2019 – Present

@ SportsIn

### Sports events aggregator

- Develop a Flutter mobile app that aggregates sports events and enables users to search for nearby events
- Create a Django web service that allows event organizers to insert new events into the system
- Established connections with 10+ regional sports associations, and aim at deploying the service at the start of the next season

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## Skills

Languages

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

Hobbies

Water polo at Sporting Clube de Portugal, reading

Skills

Python, Django, Javascript, Node.JS, React, Next.js TailwindCSS, Svelte, .NET