

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 features that resulted in a CO2 reduction of more than 18,834 tons to date
- Worked collaboratively as part of an 8-member team, successfully delivering projects related to 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

Education

Sep 2020 – Nov 2022

@ Instituto Superior Técnico

Master's degree in computer science and engineering

Sep 2017 – July 2020

@ Universidade de Coimbra

Bachelor's degree in informatics engineering

Personal Projects

Feb 2021 – Present

@ HandOnVitals

Medical device

- Collaborate with 4 colleagues from different areas of expertise
- 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

Skills

Languages

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

Hobbies

Water polo at Sporting Clube de Portugal, reading

Skills

Python, Django, Javascript, Node.JS, React, TailwindCSS, Svelte, SvelteKit