Alexandre Serra

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Education

Sep 2020 – Nov 2022

Instituto Superior Técnico

Master's Degree in Computer Science and Engineering, with specialization in Cyber Security. Grade: 17/20

Sep 2017 – July 2020

Universidade de Coimbra

Bachelor's Degree in Informatics Engineering. Grade: 15/20

Experience

Mar 2022 – Aug 2022

Full-Stack Software Developer at Staruplo

- 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

Research Collaborator at INESC-ID

- 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

Personal Projects

Feb 2021 – Present

Medical device – HandOnVitals

- 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

Sports events aggregator – SportsIn

- Develop a React Native 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

Jun 2020 – Sep 2020

Water Polo news platform – PoloAquatico.pt

- Designed a news platform that empowers users to create water polo news in React

Skills

Languages	Portuguese (native), English (proficient), Spanish (conversational)
Hobbies	Water polo at Sporting Clube de Portugal, reading
Primary skills	Python, Django, Javascript, Node.JS, React, TailwindCSS, Svelte, SvelteKit
Secondary skills	Flask, C, Java