

Carlos Ferreira

Full Stack Developer

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🕒 Age 23 (Sept. 1997)
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WHO AM I?

Young developer wanting to build powerful, quality software. Always motivated to deliver products not just exceptional in execution but also in usefulness to the world. Flexible, able to learn new processes and technologies. Capable of performing both solo and in a team. Willing to go the extra mile to make sure things get done right.

JavaScript | Java | TypeScript | Python | C# | Dart
SQL | MongoDB | NodeJS | Angular | Hibernate
Express | Firebase | Spring | Flutter | Unity



EXPERIENCE

- 10/2020 – now **Full Stack Developer at Siemens** Siemens
Developer for Siemens Mobility, helping to build, fix and augment a massive public transport management tool – the **HAFAS Information Manager** – created by **Hacon** and used by customers such as NASA. Involved in a large amount of frontend, backend and DevOps tasks, working alongside German and Portuguese colleagues to create completely new features.
- 2019 – 2020 **Internship at a Software Company** Jscrambler
Internship at **Jscrambler**, a JavaScript code obfuscation company, while working on my Master's Degree dissertation named "Exploiting Graph Search Algorithms to Optimize a JavaScript Compiler" (company supervisor: Tiago Carvalho). Developed multiple algorithms and strategies that improved the performance of the company's core commercial product by up to 30%, on average.
- 2018 **Collaborative Telepathology Platform** University of Aveiro
Final Bachelor's Degree project. Worked in a team of 5 to develop a platform supporting real-time multi-user editing of very high resolution medical images (60000x60000 or larger).
- 2018 and earlier **Programming competitions and volunteer work** Multiple
Represented my high school at **RoboParty 2015**, where teams had to use Arduino to build an optimized AI capable of traversing obstacle courses in record time. Co-supervisor of professional school students during their 2017/2018 summer internships at Infortocha (contact: 965 715 024), helping and directing them in their programming tasks.

EDUCATION

- 2018 – 2020 **Master's Degree in Software Engineering** University of Porto
Mestrado em Engenharia de Software – **17/20 GPA**. Relevant courses: Thesis (**18/20**) (supervisor: Dr. Nuno Flores); Teste, Verificação e Validação de Software (**17/20**); Compreensão e Evolução de Software (**19/20**); Segurança em Engenharia de Software (**17/20**); Computação Orientada a Serviços e Nuvem (**17/20**); Seminários em Engenharia de Software (**19/20**).
- 2015 – 2018 **Bachelor's Degree in Computer Science** University of Aveiro
Licenciatura em Engenharia Informática – **16/20 GPA**. Relevant courses: Métodos Probabilísticos Para Engenharia Informática (**18/20**); Padrões e Desenho de Software (**18/20**); Complementos de Bases de Dados (**17/20**); Algoritmos e Estruturas de Dados (**17/20**); Cálculo I (**17/20**); Cálculo II (**16/20**); Introdução à Computação Móvel (**18/20**).

PROFICIENCY

Portuguese - native speaker
English - extremely fluent
Spanish - fluent comprehension

HOBBIES

Catching up with innovations in the fields of comp sci and health; Game design; Automation of computer-related tasks.

GOALS

Further acquisition of experience with new technologies and in team environments; Participating in the construction of great, memorable software.