João Marinho

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in joaoamarinho   ⌂ JoaoAMarinho

Experience

▸ **Continental Engineering Services, Ltd.**   Porto, Portugal
Software Engineer   *Mar. 2022 – Jul. 2022*
> Curricular internship focusing on evaluating the performance of a Reinforcement Learning model, specifically applied to HVAC systems using Python.
> Developed performance metrics and visualisation tools to track model efficiency and effectiveness.

Embedded Software Engineer   *Aug. 2021 – Sept. 2021*
> Summer internship in the cybersecurity team, designed and implemented a dynamic interface using C++ for sending and receiving CAN messages.
> Worked on secure communication protocols to enhance the safety of vehicle data exchanges.

▸ **Formula Student FEUP**   Porto, Portugal
Driverless Team Member   *Oct. 2022 – Sept. 2023*
> Researched and implemented autonomous vehicle control algorithms, namely PID and MPC controllers.
> Developed custom communication protocols using ROS nodes.
> Competed in the FS-AI class in the Formula Student UK competition.

▸ **Faculty of Engineering, University of Porto**   Porto, Portugal
Invited Assistant   *Feb. 2023 – Jun. 2023*
> Supported the professor during lectures by answering students' questions and providing additional clarification on the course (SCCOM) material.

Teaching Assistant   *Oct. 2022 – Sept. 2023*
> Improved the automated exam and quiz correction process for the Functional and Logic Programming course unit.

▸ **JUNIFEUP**   Porto, Portugal
Senior Developer   *Sept. 2021 – Jul. 2022*
> Junior Enterprise member, where I developed web and mobile applications using React and React Native, while leading and providing technical support to a team of developers.
> Coordinated with cross-functional teams to deliver projects on time and within budget.

Education

▸ **Faculty of Engineering, University of Porto**   Porto, Portugal
M.Sc. in Informatics and Computing Engineering— *17/20*   *Sept. 2019 – Jul. 2024*

▸ **Chalmers University of Technology**   Gothenburg, Sweden
Erasmus+ Program   *Aug. 2023 – Jan. 2024*

▸ **Music Academy Viana do Castelo**   Viana do Castelo, Portugal
Double Bass Basic Music Course   *2012 – 2016*

Skills

Programming Languages: C/C++, Python (PyTorch, numpy, pandas, scikit-learn), JavaScript, SQL

Tools: ROS, Git, Linux, Docker

Languages: Portuguese (Native), English (C1 Advanced — Cambridge Certificate)

Interests

Areas: Software Development; Autonomous Vehicles; Machine Learning; Crossfit/Sports