Diogo Almeida

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ABOUT ME

I am an ambitious and passionate software engineer proficient in various technologies who relishes solving problems by crafting efficient, reliable, and maintainable solutions. Always eager to learn and grow, I am committed to staying current with the best practices and latest advancements in the ever-evolving world of technology.

EXPERIENCE

Critical Techworks | BMW Group   Sep 2023 – present
Software Engineer   Porto, Portugal

- Working as a full stack software engineer on Cloud Data Hub: BMW Group's data lake platform.
  - Developed an interface for database fine-grained access control, a feature optimizing AWS storage usage and projected to save over $1M annually in costs.
  - Enhanced the platform's data ingest feature by building new user interfaces and data pipeline infrastructure, improving user experience.
  - Built a web application to automate script execution for first-level support teams, reducing resolution time for common user issues.
- Technologies: React, Typescript, GraphQL, Node.js, Python, AWS, Terraform.

Formula Student FEUP

Driverless Department Member   Nov 2022 – Aug 2023
                                                                          Porto, Portugal
- Designed and implemented the perception module of the 2023 autonomous vehicle, contributing to the team's success in winning multiple awards at Formula Student UK 2023.
- Technologies: Python, PyTorch, YOLO, ROS 2.

Electronics & Software Department Member   Jul 2021 – Oct 2022
                                                                          Porto, Portugal
- Conducted research on CAN bus and embedded systems for the 2022 concept vehicle, contributing to the team's success in winning multiple awards at Formula Student UK 2022.
- Technologies: Embedded C.

EDUCATION

Master's Degree in Informatics and Computing Engineering   2021 – 2023
Faculty of Engineering of the University of Porto   Porto, Portugal
- Final grade of 18/20 values.

Erasmus+ Mobility Program - Master's Degree in Artificial Inteligence Sep 2022 – Feb 2023
University of Bologna   Bologna, Italy
- Final grade of 18/20 values.

Bachelor's Degree in Informatics and Computing Engineering   2018 – 2021
Faculty of Engineering of the University of Porto   Porto, Portugal
- Final grade of 17/20 values.

PUBLICATIONS

SIT6: Indirect touch-based object manipulation for DeskVR ✎
- D. Almeida, D. Mendes, and R. Rodrigues, "SIT6: Indirect touch-based object manipulation for DeskVR," Computers & Graphics, vol. 117, pp. 51–60, 2023, doi: https://doi.org/10.1016/j.cag.2023.10.013.

PROJECTS

News Web App ✎
Database and Web Applications Laboratory Course
- Implementation of a news forum (similar to Reddit) for gaming.
- Technologies: HTML, CSS, Bootstrap, Laravel, JavaScript.

Compiler for Java-- (subset of Java) ✎
Compilers Course
- Implementation of a programming language parser, along with lexical and semantic analysis.
- Technologies: Java, JavaCC, Jasmin.

Distributed Backup Service ✎
Distributed Systems Course
- Implementation of a peer-to-peer file storage service.
- Technologies: Java, Java RMI.

SKILLS

Programming Languages
- Python, TypeScript, JavaScript, Go, Java, C#, C++, C

Databases
- MySQL, PostgreSQL, MongoDB

Technologies
- React, Node.js, GraphQL, RabbitMQ

Tools and Services
- Git, Docker, AWS, Terraform

LANGUAGES

Portuguese – Native ┃ **English** – Full Professional Proficiency - C2