David Luís Dias da Silva

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About me

I'm a recent graduate from the Masters's in Informatics and Computing Engineering at the Faculty of Engineering of the University of Porto. I'm passionate about programming, distributed systems, software architecture/engineering, and management in the context of the software development process. During my degree, I strived to achieve excellence and overcome any challenges I faced with dedication and a passion for learning.

Education

University of Porto – Faculty of Engineering   Sep. 2020 – Present
Master's degree (MSc) in Informatics and Computing Engineering   *GPA: 19/20*
Technische Universität München   Oct. 2021 – Mar. 2022
Master's degree (MSc) in Informatics - Exchange semester   *GPA: 18.46/20*
University of Porto – Faculty of Engineering   Sep. 2017 – Sep.2020
Bachelor's degree (BSc) In Engineering Sciences - Informatics and Computing Engineering   *GPA: 19/20 (top 10% of students)*
11th Lisbon Machine Learning School   Jul. 2021
Attendee

Experience

Sciencemeter: Investigation grant   Feb. 2021 – Present
Web-application built for the Department of Informatics.   *University of Porto – Faculty of Engineering*
  - Build platform is used to aggregate metrics from different sources, regarding scientific productions by researchers.
  - Improve software engineering/architecture skills
  - Use of web technologies (namely React, MongoDB, Typescript)
  - Software development and project management practice
  - In Feb. 2022, a group of students from the BsC. in Informatics and Computing Engineering were tasked with working on the platform. I'm currently accompanying the development process.
  - Build under the guidance of professors Rui Maranhão and André Restivo

Teaching Assistant: Programming   Feb. 2021 – Jul. 2021
Assist students of the Programming course in projects and with course related questions.   *University of Porto – Faculty of Engineering*
"New Talents in Artificial Intelligence" grant   Nov. 2019 – Sep. 2020
Research reinforcement learning reward shaping techniques.   *Calouste Gulbenkian Foundation*
  - Improvement of Machine Learning knowledge (Reinforcement Learning)
  - Creation of a new model for representing problems dubbed *Resource Appropriation* problems
  - Usage of difference rewarding in the *Common's Game*
  - Usage of resource abstraction in the *Road Network Domain* with complex networks (Sioux-Falls Network)
  - Build under the guidance of professor Rosaldo Rossetti

Programmer internship   Jul. 2019 – Sep. 2019
Manage small corporate network and create interface for web-application   *Rational Innovation*
  - First contact with networking and web-technologies
  - Insights on software engineering on the corporate level
  - Contact with different sectors of a company (sales, technical, financial)

Projects

A description of most of my projects can be found in my GitHub
github.com/daviddias99/projects

Master's thesis
Titled "Adopting auction-based task allocation towards decentralized orchestration in Mist IoT", done under the guidance of professors André Restivo, Hugo Sereno and João Pedro Dias. Graded 19 out of 20.

Technical Skills, Language Skills, and Interests

Programming Languages: C/C++, Java, Python, PHP, Javascript/Typescript, HTML, CSS, Node.js, Lua, Alloy
Libraries/Frameworks: ReactJS, SCSS, OpenCV, PyTorch, NumPy, Matplotlib, OpenCV, Laravel, Node, Jest, Junit
Version Control: Git
Other technical kills: Docker, Agile, Scrum, OOP, Design Patterns, Software Engineering, Software development lifecycle
Languages: Portuguese (native), English (C1 level)
Interests: Software Engineering and Architecture, Project Management, Requirements Engineering, Distributed Systems, IoT, Cloud computing