Ricardo Café

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OBJECTIVE

Software engineer with a strong foundation in electrical and computer engineering, seeking to leverage my expertise in AI, machine learning, and full-stack development to drive innovative solutions in cutting-edge technology environments. Passionate about contributing to impactful projects that bridge the gap between advanced research and practical applications.

EXPERIENCE

- **GMV Innovating Solutions [⊕]** *July 2021 - September 2021*
  Software Developer - Summer Intern Lisbon, Portugal
  ◦ Designed and implemented a global map dashboard for real-time monitoring of GNSS stations
  ◦ Implemented visual indicators for quick data exchange status insights
  ◦ Engaged in back-end and front-end development using Python, HTML, and JavaScript.

- **Vodafone [⊕]** *July 2022 - September 2022*
  Engineer Summer - Intern Lisbon, Portugal
  ◦ Conducted site shakedown across diverse locations in Portugal to assess 5G signal strength, employing analysis indicators like SNR and RSRQ
  ◦ Directly engaged with clients to seamlessly integrate radio repeaters into servers for remote data access.
  ◦ Proficient use of tools, including PowerBI, to enhance data visualization and analysis.

- **Bank of Portugal [⊕]** *June 2024 - At the moment*
  Software Developer Lisbon, Portugal
  ◦ Upgraded a legacy GUI from PySimpleGUI to PyQt, enhancing functionality and user experience.
  ◦ Developed a PowerBI dashboard to analyze and visualize the sustainability impact of individual collaborators.
  ◦ Participated in an R&D project focused on leveraging AI and automation to streamline back-office operations.

EDUCATION

- **Instituto Superior Técnico - #11 in European Ranking** *September 2018 - November 2023*
  Master degree in Electrical and Computer Engineering Lisbon, Portugal
  ◦ Portugal GPA: 16.45/20; Swiss GPA: 5.75 - 6

- **Budapest University of Technology and Economics** *February 2022 - June 2022*
  Erasmus during the Master degree in Electrical and Computer Engineering Budapest, Hungary

PROJECTS

- **Research Scholarship - Institute for Systems and Robotics** *January 2023 - June 2023*
  Tools: ROS, C++, Python, PyQt, Pandas, Scipy, Numpy, Keras, Tensorflow [☉]
  ◦ Funded my thesis titled 'Hybrid ROV/AUV underwater robotics systems'
  ◦ Provided mode switching between autonomous and remote modes mid-mission, to expand the underwater vehicle's functionalities and enhance its safety
  ◦ Introduced wireless virtual tether for tetherless ROV operations.

- **Local Accommodation Booking System** *January 2024*
  Tools: React, MongoDB, Express, Node.js, JavaScript [☉]
  ◦ Developed a comprehensive local accommodation booking system to support my family's business operations.
  ◦ Implemented the project using the MERN stack (MongoDB, Express, React, Node.js) for a full-stack solution.

SKILLS

- **Programming Languages:** Python, C++, C, Javascript, Matlab, ROS, SQL, Assembly
- **Web Technologies:** Node.js, Bootstrap, Express, HTML
- **Database Systems:** Microsoft SQL Server, MongoDB
- **Data Science & Machine Learning:** Keras, Tensorflow, Numpy, Matplotlib, Scipy, Pandas, PowerBI
- **Version Control:** Github
- **Specialized Area:** Software Engineering, Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Web Development, Robotics