

# João Caldeira

✉ joaomiguel.caldeira@gmail.com

🌐 <https://www.linkedin.com/in/joao-miguel-caldeira/>

🌐 <https://joaomiguelcaldeira.github.io/my-portfolio/>

☎ +351 913242204



## Education

Feb 2023 – Nov 2024    ♦ **M.Sc. Computer Science and Engineering** – Instituto Superior Técnico  
Universidade de Lisboa.

Sep 2018 – Feb 2023    ♦ **B.Sc. Computer Science and Engineering** – Instituto Superior Técnico  
Universidade de Lisboa

## Professional Experience

Oct 2023 – Present    ♦ **Associate QA Automation Engineer** – SKY Portugal

- Implemented an **API telemetry framework** to enable seamless monitoring and testing, optimize performance analysis, and reduce defect rates across services.
- Enhanced **CI/CD pipelines** by integrating tools that **streamlined daily team workflows** while also improving the output quality, which increased adoption and confidence among client teams.
- Led **brainstorming** sessions and fostered **collaboration** with client teams, **continuously iterating** on tools and outputs to better meet each team's needs.

Jul 2023 – Sep 2023    ♦ **Apprentice QA Automation** – SKY Portugal – *Summer Internship*

- Designed and implemented automated **resilience testing frameworks** for web and mobile applications, establishing benchmarks to guide future development iterations.
- Collaborated cross-functionally to resolve technical issues and **streamline product development and testing workflows**.

## Projects

- ♦ **M.Sc. Thesis** – Implements a **machine learning-based** trading system for **stock market** prediction, introducing a novel data labeling method and a unique system architecture featuring models specialized for short- and long-term trends, improving on benchmark trading strategies' profitability.
- ♦ **AI - Informed Search** – Solves a **Ricochet-Robots** game in the least amount of plays possible using a **RBFS** in a search tree with a state data structure to store and represent the game information.
- ♦ **Algorithms - Graphs** – Solves a problem in which 2 persons can't visit the same supermarket in a city. The solution builds the city with the supermarkets and all the residents as a **graph** and uses a **maximum flow algorithm** with vertex capacities using a super source and super target.

## Skills

- |                     |   |
|---------------------|---|
| <b>Coding</b>       | ♦ Python, C++, C, Java, JavaScript, SQL   |
| <b>Technologies</b> | ♦ Pandas, Scikit, AWS, Docker, Jenkins, Grafana, PyTest, Playwright, Appium, PostgreSQL |
| <b>Soft Skills</b>  | ♦ Critical Thinking, Problem-Solving, Communication, Collaboration, Team Spirit         |