

# Pedro Teixeira

<https://www.linkedin.com/in/pedro-novo-teixeira/>  
<https://github.com/pedro-novo/>

Email: [pedro.novo.93@gmail.com](mailto:pedro.novo.93@gmail.com)  
Mobile: +351917146077

## WORK EXPERIENCE

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### • Critical TechWorks - BMW Group

*Software Engineer*

Porto, Portugal

*June 2022 – Present*

- Played a pivotal role in enhancing a **React** building management application by conceptualizing vital features that improved employee workspace and parking reservations, while also supplying stakeholders with real-time office capacity and parking availability insights, enabling the company to make data-driven decisions on seat availability and optimize space utilization.
- Led the development and successful implementation of a robust backoffice system. This system empowers stakeholders to efficiently initiate and oversee a wide range of building management actions, ultimately augmenting overall operational effectiveness.
- Enhanced user experience through the implementation of front-end application improvements, including the incorporation of lazy loading and prefetching techniques.
- Identified refactoring opportunities within our **React** application (e.g. transitioning from custom fetching hooks to utilizing **React Query** for data retrieval, and restructuring the directory for improved organization). Facilitated alignment between engineers and producers regarding these proposed changes and effectively executed the refactoring process. As a result, the refactored patterns have been acknowledged as best practices within the team, leading to a substantial improvement in the developer experience.
- Trained and assisted a newly-formed team in **React**, enhancing their proficiency and enabling swift contributions to development efforts.
- Participated in the refactoring of existing **Angular** front-end applications into micro front-ends, using the **NX** framework and played a role in the infrastructure development and management, unlocking parallel development for multiple teams.
- Acquired new skills in **Python** and **Airflow** to address the team's knowledge gaps and subsequently provided training to the team in these areas.
- Designed and implemented a data integration application using **Python** and **Airflow**, that consumes data from the JIRA API, performs transformation and loading processes, and provides comprehensive Key Performance Indicators (KPIs) for team leads. This enables effective tracking and management of team performance. Achieved an approximate 70% improvement in processing time, reducing project processing from approximately 19 seconds to approximately 5.8 seconds.
- **Technologies used:** React, React Query, Redux, TypeScript, Jest, React Testing Library, Angular, Java, Quarkus, PostgreSQL, Airflow, Python

## PROGRAMMING SKILLS

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- **Languages:** TypeScript, JavaScript, Java, Rust, Python, SQL, HTML, CSS, C
- **Web Technologies and Frameworks:** React, Next, React Query, Redux, Zustand, Tailwind, Node.js, Express.js
- **Databases:** MySQL, PostgreSQL, MongoDB
- **OS, Version Control and Deployment:** Linux, MacOS, Windows, Git, Docker, Kubernetes, Jenkins

## PROFILE

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A self-taught and driven developer with an insatiable curiosity for learning and a passion for crafting efficient solutions. Deeply intrigued by architectural principles, design patterns, and industry best practices. My coding philosophy centers around clarity, and I take pride in creating code that not only functions flawlessly but is also easily understandable by fellow developers.

Committed to engaging in oriented learning during the early hours of the day and constantly seizing learning opportunities throughout the workday, embracing a mindset of continuous growth. I delved into the journey of self-education, and in doing so, discovered both the challenges and the personal growth it brings. My emotional resilience and empathy have been strengthened through this process, allowing me to become attuned to the struggles and emotions of others. As an effective communicator, I'm devoted to mutual growth, always valuing the symbiotic nature of shared learning and always eager to contribute and innovate in a dynamic team setting.