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Fernando Luz

About me

With over **16+ years** of experience in software development, I've evolved from a proficient Software Engineer into an accomplished **Engineering Manager**. My journey has encompassed a wide array of projects and industries, from startups to oil and gas companies, educational institutions, and research labs.

As a **self-driven**, **quick learner**, and **top-notch coder**, I've always been at the forefront of **solving complex problems** and supporting my **development teams**. This journey culminated in my transition to an Engineering Manager role.

In this capacity, I thrive on maintaining **team collaboration** to achieve project objectives. I firmly believe in the importance of **knowledge sharing** and consistently promote **clear**, **high-quality coding** and **best practices**. My transformation reflects my passion for talent development, driving impactful projects, and contributing to organizational success at the intersection of technology and engineering.

Experience

2021 - Present .

As the Engineering Manager at Industries BU, I have overseen a comprehensive portfolio, which includes **Healthcare Experience Cloud (HEC)**, **Automated Notifications (AN)**, and **Agent Flows (AF)** products, along with the dedicated **QA** team. In this capacity, I've had the privilege of leading and mentoring a team of **13+ Individual Contributors**, ranging from entry-level professionals to team leads. I've not only managed these **critical products** and teams but also **championed** a culture of innovation, **collaboration**, and **continuous improvement**. My role has been integral in driving our organization's commitment to delivering **high-quality** solutions and **fostering** a dynamic and **forward-thinking** work environment.

2021 - 2022 .

Integrate a new team from the ground to create a new solution for banking financial services. The tech stack in this project uses **Kotlin (BE)**, **SpringBoot**, **React (FE)**, **Redis**, **PostGres SQL**, **MongoDB**, **RabbitMQ**.

2018 - 2021 .

Responsible to start the **ASML** project, where I contributed in **Variant Pattern** implementation at the robot component to be used in next lithography machine generation (EXE-5000), and currently I'm leading the Portugal team to expand unit tests quality using a framework based on **gtest**. I was one of the founders in the Meetup internal group in Altran PT.

2016 - 2018 .

Managed the team responsible to implement new features in the **TMS (Technomar Maritime Simulator)**. **TMS** is a vessel maneuver simulator used in training activities. **Launched** the certification planning for **TMS** simulator by DNV GL agency, and the **collaborated** in the the core of hydrodynamic numerical model applied in a "full bridge" simulator. **Cultivated** good practices in software development process, such as **Scrum/Kanban** board, **TDD**, **Git** adoption and **mentored** meeting sessions to promote the homogenization of the knowledge of the team.

2008 - 2016 .

My role in the TPN laboratory was to develop a set of applications with **High-Performance Computing**. The languages I use was **C++/C**, **Python**, **MPI/sockets** and **bash** in Linux and Windows environment. Other duties includes testing and validation of numerical simulations, optimization, implementation of parallel improvements and integration with other projects. I also worked in others several projects, including the first version of **vessel maneuver simulator** called **SMH**. This project was select as finalist of **ANP (National Petroleum Agency)** Prize Award for Technological Innovation in 2016.

2011 - 2016 .

Teaching-related responsibilities such as giving lectures, tutoring, manage homeworks, laboratory activities, exams preparation and grading.

Education

2015 .

2010 .

2006 .

Other courses

Languages

Random achievements and anecdotes