Thales Vignoli

Embedded Developer and Data Scientist

Araçatuba, SP - Brazil

+55 (18) 99628-1108 thalesvig.analytics@gmail.com thalesvignoli thales-vignoli thalesvignoli

Experience

Embedded Developer May 2024 – Present

Movement *Pompéia, Brazil*

- Managing the development of two projects utilizing Generative AI (LLM): a chat system to assist in equipment maintenance and a training prescription system
- Developed a computer vision solution for user authentication on gym equipment using AWS services (S3, API Gateway, DynamoDB, Lambda, and Rekognition)
- Developed an embedded system for BLDC motor control and BLE communication using Python and C++
- Developed a Flutter application with BLE and Wi-Fi communication
- Code versioning using GitHub and Git
- Experience in projects using the Scrum methodology and its tools
- Prospected and established partnerships with suppliers of innovative technologies in the fitness industry
- Applied technologies: Python, Excel, SQL, C++, Flutter, Generative AI (LLMs), Computer Vision, GitHub, Git and Cloud Computing (AWS)

Junior Product Developer Apr, 2023 – May, 2024

Movement *Pompéia, Brazil*

- Developed new automated management system for test request and reporting in the product testing and validation department, creating an interconnected end-to-end workflow with real-time management via PowerBI and Excel VBA for the company's management
- Delevoped the electronic product development process by defining the process stages and the deliverables associated with each phase
- Developed of embedded products and explore new technologies and concepts in the field of vibration analysis for maintenance purposes
- Applied technologies: PowerBI, Python, Excel VBA, SQL, C++, Flutter and Firebase

Engineering Intern Aug, 2022 – Apr, 2023

Movement *Pompéia, Brazil*

- Automated data collection from canvas and phenolic deck testing devices by developing an embedded system with sensors that transmit data to Google Sheets reducing problems and several hours of manual service from technicians
- Developed two low-code applications using App Sheet to streamline test reporting by field technicians reducing problems and several hours of manual service from technicians
- Applied technologies: PowerBI, AppSheet, SQL, C++, and Google Sheets

Projects

End to End Data Science Project for Maintenance

- Developed a project about fault classification in machines to facilitate maintenance using python and machine learning (supervisioned models - classification)
- Deployed the application using Streamlit and Github
- Applied technologies and tools: Machine Learning, CRISP-DM, Python, Exploratory Data Analysis, Data Visualization

Telecom Customer Churn Analysis

- Performed churn analysis for a telecommunications company. Used SQL in BigQuery (GCP) for data manipulation and Power BI for visualization. The project provided insights into customer behavior and trends leading to churn.
- Applied technologies and tools: SQL, Power BI, Cloud Computing (GCP), Data Cleaning, Exploratory Data Analysis.

Education

São Paulo State University (UNESP) — Bauru, Brazil
M.Sc. in Computer Science — *Aug. 2024 – Aug 2026*

Federal University of Technology - Paraná (UTFPR) — Cornélio Procópio, Brazil
B.A. in Electrical Engineering — *Jan. 2018 – May 2023*

Technical Skills

Languages: Python, SQL and C++
Frameworks and Tools: Machine Learning, Data Visualization (PowerBI), Cloud Computing (AWS), Git/Github, Docker, Statistics and Generative AI

Additional Information

Languages

- Portuguese (Native)
- English (Professional)