

# Pedro Ferreira

## SOFTWARE ENGINEER

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## EXPERIENCE

### Nokia

Feb 2025 - Present

Software Engineer

### Sky Portugal

July 2024 - Aug 2024

Backend Developer (Summer Intern)

Development of a Slack Bot to automate the management of the search engine used in Sky and NBCU streaming platforms (SkyShowtime, Peacock, ShowMax, NOW/WOW, SkyQ, and SkyGO).

Responsible for:

- Implementing interactions with the GitHub API, where configurations are stored, such as creating commits, pull requests, branches, and listing file contents.
- Listing the configurations in production, according to the platform and the respective location, using HTTP routes

Technologies: Kotlin, Docker, Jira, Confluence

### Instituto de Telecomunicações (IT)

Jan 2024 - Apr 2024

Fullstack Developer (Undergraduate Student Researcher)

Contributed to NEF-Emulator, an open-source simulator of the Network Exposure Function (NEF) in a 5G network, as part of the European R&D project 5GASP.

Responsible for designing and implementing an architecture that enables real-time location data of user equipment (UEs).

Technologies: Python, JavaScript, RabbitMQ, MongoDB, Docker

### Redlight Software

July 2023 - Sep 2023

Backend Software (Summer Intern)

Developed a meal planning platform, and was responsible for:

- Endpoint authentication and authorization
- Pagination of search results
- Setting up the containers, and the pipeline for lining and unit testing
- A notifications system, supporting Discord and Slack

Technologies: Ruby, PostgreSQL, GitLab CI/CD, Docker, Figma, Jira

### Ubiwhere

July 2022 - Sep 2022

Backend Software (Summer Intern)

Developed a traffic simulation platform using real-time sensor data to estimate street-level traffic congestion.

Responsible for benchmarking the latency of time-series databases and infrastructure setup.

Technologies: Python, Prometheus, Timescale, InfluxDB, Docker

## EDUCATION

### University of Aveiro

Present

Master's degree in Computer and Telematics Engineering

### University of Aveiro

2021 - 2024

Bachelor's degree in Computer and Informatics Engineering

### University of Aveiro

2019 - 2021

Integrated MSc in Computational Engineering (Interrupted)

## PUBLICATIONS

Pereira, Pedro & Ferreira, Pedro & Cardita, Francisco & Castanheta, Afonso & Cruz, Henrique & Oliveira, Luís & Teixeira, Samuel & Escaleira, Pedro & Gomes, Diogo & Aguiar, Rui. (2024). Automatic Service Migration in a MEC-NFV Environment for a User Mobility Scenario.