




Pedro Ferreira

SOFTWARE ENGINEER

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EXPERIENCE

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)

SKILLS

Programming languages: Python, Java, Kotlin, Matlab, and Ruby.

Experience with container configuration and orchestration, web development frameworks like Ruby on Rails, Spring Boot, Django and FastAPI, messaging systems (Kafka, RabbitMQ), testing, and agile methodologies.

PUBLICATIONS

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