

JÚLIO MIGUEL BRAZ DA COSTA SILVA

Software Engineer

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in julio-miguel-silva 🌐 jmbsc
🌐 https://jmbsc.github.io/portfolio/



Work Experience

Mid Backend Developer

GuestReady / RentalReady

📅 Oct 2024 – Present 📍 Remote

- Worked on a **Property Management Software (PMS)** used by thousands of properties built on **Django**, as part of a team of over 40 developers; contributed primarily to the **backend**, with occasional contributions to the **frontend** as well.
- Built and maintained features integrating with third-party **APIs** like **Booking.com**, **Airbnb**, and **Vrbo**.
- Owned core backend components; improved **performance**, **readability**, and **maintainability** through refactoring.
- Investigated and resolved user-reported bugs, boosting system reliability and satisfaction.
- Diagnosed production issues using **Sentry** and **Datadog**.
- Performed bulk updates on **PostgreSQL** production databases with minimal downtime.
- Led and participated in **code reviews**, promoting best practices and collaboration.

Software Engineer

Wavecom

📅 Jan 2021 – Oct 2024 📍 Aveiro, Portugal (Hybrid)

- Developed features in close collaboration with clients and stakeholders.
- Built microservices in **Python** and **Golang**; used **gRPC** and **Protocol Buffers** for service communication.
- Designed **REST APIs** for **SQL** and **NoSQL** databases.
- Containerized services with **Docker**; managed deployments via **Docker Compose**.
- Optimized queries for faster dashboard loading in **Grafana**.
- Created **ETL pipelines** with **Telegraf**; performed data analysis using **Pandas**.
- Developed a monitoring framework for **High-Performance Computing (HPC)** with **Grafana**, **VictoriaMetrics**, and **Python**.
- Automated tasks with **Makefiles** and **Bash**.
- Researched new technologies and built Proofs of Concept (**PoCs**).

Education

Master in Electronics/Telecommunications Engineering

University of Aveiro

📅 2014 – 2020 📍 Aveiro, Portugal

Thesis - Recovery and Identification of Moments - Grade: 19/20

- Development of a **Python** automatic image retrieval system capable of associating images to moments described in text

Relevant Links

- **BigHPC Project**: <https://bighpc.wavecom.pt/>
- **BigHPC Speaker**: <https://www.youtube.com/watch?v=5gaiovo9DD0>
- **Thesis Link**: <https://ria.ua.pt/handle/10773/30553>
- **Thesis Paper**: https://ceur-ws.org/Vol-2696/paper_91.pdf

Tech Skills

Programming Languages

Python Golang Javascript

Web

HTML HTMX CSS

REST APIs

Databases

PostgreSQL

SQL/NoSQL

Victoriametrics

Data serialization

JSON

CSV

YAML

Python Libraries

FastAPI

Pydantic

Django

SQLAlchemy

Pandas

Others

Datadog

Sentry

RabbitMQ

Redis

Git

Telegraf

Linux

Shell scripts

Grafana

Docker

Languages

Portuguese (Native)

English (Fluent)