

# Curriculum Vitae

## Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

Email(s)

Nationality(-ies)

Date of birth

**Loureiro, João**

Rua Capitão Ramires, 17, 3º Esq., 1000-084 Lisboa, Portugal

966553383

jnloureiro93@gmail.com

Portuguese

September 12<sup>th</sup>, 1993

## Education

2008-2011

Colégio do Sagrado Coração de Maria  
High School

2011-2014

Instituto Superior Técnico  
Integrated Master's in Mechanical Engineering (course change)

2014-2018

Faculdade de Ciências da Universidade de Lisboa  
Licenciate in Computer Science and Engineering

## Professional experience

2018-2019

Backend Developer  
homeit (homeit.io)

Responsible for the design, development, deployment, maintenance and monitoring of highly-available distributed systems.

- Designed and developed multiple public RESTful APIs in Node.js, including an OAuth2 single sign-on authentication service using JWTs.
- Responsible for designing database schemas, maintaining database clusters and tuning queries on MongoDB and MariaDB.
- Responsible for the management of cloud services on Google Cloud Platform, such as Cloud Functions, Kubernetes clusters and Cloud Pub/Sub.
- Responsible for building and improving Docker images for the various services.
- Responsible for maintaining all backend projects and monitoring all deployed cloud services using Stackdriver.

## Personal skills

Mother tongue(s)

Other language(s)

*Self-assessment  
European level<sup>(\*)</sup>*

**English**

## Technical skills

Programming Languages

Databases

Programming Tools

Frameworks

## About me

## Portuguese

English

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C2

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

C, C++, C#, Java, Python, Go, Rust, Javascript, PHP

MySQL/MariaDB, MongoDB

Git, Docker

Qt, Node.js, Android Native

I am very interested in learning new things and I can understand new technologies fast.

I am able to work in a team, as well as alone. I'm a good listener, while also being able to express my ideas in a concise and clear way.

I like efficient work: I prefer to plan extensively and save resources by getting it right the first time instead of having to redo something later.

## Notable projects

### Jeremias, the homemade quadcopter

Building a quadcopter and writing its firmware, using the Arduino platform.

- Responsible for programming the speed controllers.
- All flight logic flashed directly on the microcontroller, allowing for autonomous flight.
- In the second version of the project, a custom PCB with the ATmega microcontroller was used.
- Responsible for designing the new circuit board.

### HubServe

Flexible message broker.

- Middleware written in Go.
- Designed for maximum versatility, allowing raw socket and WebSocket connections.
- PubSub based message broadcast, with optional external database persistence.

### UnScene

Data streaming platform.

- Client software written in C#, server in Python and web app in Javascript.
- New scripting languages designed for the creation of plug-ins.

### NovoCondutor

Driving lessons management system.

- Integration with the infrastructure already existing in driving schools.
- Web app and Android app for account management and data visualization.

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