

# João Lucas Pires

SOFTWARE DEVELOPER · NETWORK ENGINEER

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## Summary

Currently finishing my Masters Degree in Networks & Computer Engineering @ FCUP.

Also working full time as a software developer at AdEvolutio.

Some of my biggest interests are software engineering and web services development. My work is centered mostly around Django, but I also work with front-end frameworks such as Svelte and ReactJS.

## Work Experience

### AdEvolutio

FULL STACK SOFTWARE DEVELOPER

Porto

Sept. 2020 - PRESENT

- Built front-end interface for a Web Application for insertion of real estate construction expenses. (ReactJS) [Link]
- Built website with online store for automotive services. (Django) [Link]
- Worked on developing an online news website with a Content Management System. (Django/Wagtail) [Link]
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- Worked on a Web Component for dynamic object filtering. (Svelte) [Project for Universidade do Porto]
- Created Web Component that allows creation of dynamic forms with visual manipulation. (Svelte) [Project for Universidade do Porto]
- Built Python package for Django to create wizard-like functionality easily. (Django) [Internal Project]
- Working on a Continuous Education portal with backoffice interface for management (Django) [Project for Universidade do Porto]
- Working on a Events website with backoffice interface for management (Django) [Project for Universidade do Porto]

### DjangoCon Europe 2022

PRESENTER/STAFF

Porto

2022

- Worked on the organizer team.
- Gave a lightning talk about "Django Form Utils" (a package developed by me to improve Django Forms.)

### DjangoCon Europe 2021

PRESENTER/STAFF

Online

2021

## Freelance Projects

### Grupo Escolas de Condução Oliveira Lda.

SOFTWARE DEVELOPER/SYSTEM ADMINISTRATOR

Maia, Porto

Jun. 2020 - PRESENT

- Built a WebComponent to improve reactivity and usability of a core feature: Lessons Booking (Svelte)
- Built a hybrid app to allow students to view booked classes and exams. Also allows easy identification of the student using a QR code. (Ionic/ReactJS/Django)
- Built a Web App for management of driving schools. The App allows the management of customers, lessons, exams, appointments, products, and many other features. It is also compatible with PDF exports and printing receipts on thermal printers.
- Installation and maintenance of application server and databases.

### MEDI-MAIA Serviços Médicos Lda.

SOFTWARE DEVELOPER/SYSTEM ADMINISTRATOR

Maia, Porto

Jun. 2019 - PRESENT

- Installation and maintenance of computer systems.
- Deployed a program for dynamic generation of consent documents for personal data processing in compliance to GDPR. (Python/Tkinter)

### FOCA Automotive Unipessoal Lda.

SOFTWARE DEVELOPER/SYSTEM ADMINISTRATOR

Maia, Porto

2016 / Jun. 2019 - Sept. 2019 / PRESENT

- Built a new Web App with improved interface, mobile responsiveness and social network authentication (Google Auth) to allow car wash bookings. (Django)
- Built Android app for booking car washes that allows vehicle registration and booking state checking. (Flutter/NodeJS)
- Built Web App to allow staff to manage bookings, contact customers and send invoices by e-mail. (PHP)
- Built Web App to allow customers that don't have an Android device to book car washes using a web browser. (PHP)
- Installation and maintenance of application server and databases.
- Maintenance of online shop. (2016)

## **FARCAR - Faria & Cardinal Lda.**

*Maia, Porto*

SOFTWARE DEVELOPER/WEB DEVELOPER/SYSTEM ADMINISTRATOR

*Jun. 2016 - 2020*

- Deployed simple website for displaying company information and some vehicles. (HTML, CSS) (2016)
- Deployed new version of the website that allows the display of the entire stock of vehicles. (PHP) (2017)
- Deployed new version of the website with a more minimalist design that allows the display of the entire stock of vehicles with more information. (PHP) (2018)
- Built Web App to allow staff to add vehicles, change order of display, declare sell state and register customers. (PHP) (2018)
- Updated Web App to allow removal of vehicles, information and picture editing. (2019)
- Installation and maintenance of web server and databases.
- Installation of security cameras using Raspberry Pi modules with remote access. (Linux)

## **Education**

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### **FCUP (Faculty of Sciences @ University Of Porto)**

*Campo Alegre, Porto*

INTEGRATED MASTERS DEGREE IN NETWORKS & COMPUTER ENGINEERING

*Sept. 2016 - Sept. 2022*

### **ISEP (Institute of Engineering @ Polytechnic Of Porto)**

*Porto*

DEGREE IN ELECTRICAL AND COMPUTER ENGINEERING

*Sept. 2015 - Apr. 2016*

- Not Completed

### **Castêlo da Maia High School**

*Maia, Porto*

HIGH SCHOOL DEGREE - SCIENCES AND TECHNOLOGY

*Sept. 2012 - Jul. 2015*

## OUTSIDE CLASSES

2019	<b>Lecturer</b> , HTML, CSS and Bootstrap Workshop	FCUP
2018	<b>Lecturer</b> , HTML and CSS Workshop	FCUP
2018	<b>Staff</b> , UPDATE 2018 - Computer Science Event	FCUP
2017-2019	<b>Member</b> , Computer Sciences Nucleus/Group	FCUP

## INSIDE CLASSES

2021	<b>Security Oriented application</b> , Development of a P2P network system with a Kademlia protocol implementation together with a transactions module stored on a distributed blockchain. (Java)	Security of Systems and Data
2021	<b>Mobile Application with AR</b> , Prototype of a didactic interactive game for children with augmented reality for mobile devices. (C/Unity)	Graphical Computation
2020	<b>Geo-Centered App</b> , Simulation of virus infection using a dataset of taxi movements and graphical integration on a geographic map. (Python)	Database Advanced Topics
2020	<b>Web App</b> , Web Application for insertion of real estate construction expenses for future integration on a data warehouse. (Django)	Internship
2020	<b>Web App</b> , Web interface that connects to a control engine that allows the management of server states and UPS energy values. (Dart/Python)	Embedded Systems
2019	<b>Android App</b> , Proof-Of-Concept of an app that receives temperature and humidity readings and controls a remote light. (Dart/Python)	Network Advanced Topics
2019	<b>Project Draft</b> , Integrated system that allows stock management of a supermarket via video cameras and 3D modelling of store corridors to identify product locations, future-proof in-store system to facilitate customer communication and AI-driven purchase suggestions.	Software Project Management
2018	<b>Web App</b> , Rides system ("Uber-like") with matchmaking using Google Maps API for defining current location. (Java/GWT)	Software Architecture
2017	<b>Web App Prototype</b> , Prototype of a web-based portal that records and displays statistics about usage of a "Complaints Portal"/"Virtual Complaints Book" (HTML/CSS)	Person-Machine Interaction

## Programming Languages

### MOST USED

- Python
- JavaScript (EC2019)
- Dart

## Programming Languages

### OTHERS I'VE USED BEFORE

- PHP
- C
- C++
- Java

## Frameworks/Platforms

### MOST USED

- Django (Python)
- Bootstrap 5 (HTML/CSS/JS)
- ReactJS (JS)
- Svelte (JS)
- Ionic (JS)
- jQuery (JavaScript)

## Frameworks/Platforms

### OTHERS I'VE USED

- NodeJS (JavaScript)
- Flutter (Dart)
- Tkinter (Python)

## Valuable Skills

### SKILLS I USE DAY-TO-DAY

- HTML 5
- CSS 3
- SCSS
- JSON Schema 7
- Docker/Docker Compose
- Wagtail
- MySQL
- MariaDB
- PostgreSQL
- Apache
- NGINX
- LaTeX
- Linux
- bash
- SEO
- Software design patterns
- UML diagrams
- Unitary Tests (PHPUnit, JUnit, Google Test)
- Fuzzing, pentesting and static analysis tools
- Microsoft Office

## Languages

### FAMILIAR SPEAKING/WRITING LANGUAGES

- Portuguese
- English
- Spanish