



# Paulo Alexandre Fernandes Medeiros

**Nationality:** Sao Tomean **Date of birth:** 30/09/1997

✉ **Email address:** [pafmed@outlook.com](mailto:pafmed@outlook.com)

✉ **Email address:** [paulofernandesmedeiros@gmail.com](mailto:paulofernandesmedeiros@gmail.com)

🌐 **Website:** [medpaf.github.io](https://medpaf.github.io) [in](https://www.linkedin.com/in/medpaf) **LinkedIn :** [linkedin.com/in/medpaf](https://www.linkedin.com/in/medpaf)

📍 **Address:** Lisbon (Portugal)

## ABOUT ME

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I'm a versatile Software Developer and Automation Engineer with a particular interest in computer networks and cybersecurity. My time is primarily spent researching, prototyping, and coding. I consider myself to be a hardworking, with an excellent work ethic and interpersonal skills.

## EDUCATION AND TRAINING

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### Bachelor

**Tianjin University** [ 06/2021 ]

**Address:** No. 135, Yaguan Road, Haihe Education Park, Jinnan District, Tianjin City, P.R. China, 300350 Tianjin (China)

[tju.edu.cn](http://tju.edu.cn)

**Field(s) of study:** Information and Communication Technologies : *Software and applications development and analysis*

## WORK EXPERIENCE

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### Automation Developer

**Willis Towers Watson** [ 06/2022 – Current ]

- [wtwco.com](https://www.wtwco.com)

**City:** Lisbon

**Country:** Portugal

- Gather knowledge on existing business process and technical requirements.
- Identify and implement process improvement initiatives using automation.
- Support engagement of teams in the development of their RPA solutions.
- Support and maintain automation process as required, including in the live environment.
- Support with business design document creation & process streamline.
- Handle information with confidentiality and integrity, work with internal stakeholders to ensure compliance and information assurance.
- Create acceptance test documents, identifying all the process scenarios and their expected outcomes.
- Work closely with other developers, business analysts, internal stakeholders and external providers.

## DIGITAL SKILLS

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### My Digital Skills

#### Programming Languages

Python / Java / Bash

#### Front-end Development

HTML / CSS

#### DBMS

MySQL

#### Tools

UiPath / Git / Docker / VMs

#### IT

Robot Process Automation (RPA) / Networking / Information Security

#### Operating Systems

Linux (Ubuntu, Fedora, Kali, Manjaro, Pop!\_OS) / Windows

## LANGUAGE SKILLS

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Mother tongue(s): **Portuguese**

Other language(s):

#### English

**LISTENING C1 READING C2 WRITING C1**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

#### Chinese

**LISTENING B1 READING B1 WRITING B1**

**SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1**

## PROJECTS

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### Hawk

[ 2020 ]

Network and pentest utility that I developed so that I could perform different kinds of tasks using the same suite, instead of jumping from one tool to another.

Currently, this script can perform a good variety of tasks such as ifconfig, ping, traceroute, port scans (including SYN, TCP, UDP, ACK, comprehensive scan, host discovery (scan for up devices on a local network), MAC address detection (get MAC address of a host IP on a local network), banner grabbing, DNS checks (with geolocation information), WHOIS, subdomain enumeration, vulnerability reconnaissance, packet sniffing, MAC spoofing, IP spoofing, SYN flooding, deauth attack and brute-force attack (beta).

Other features are still being implemented.

This project is licensed under the MIT License.

[github.com/medpaf/hawk](https://github.com/medpaf/hawk)

## **Face mask detector system**

[ 2020 ]

Face mask detector computer vision application system I developed using Machine Learning. The chosen language was Python and libraries such as TensorFlow, Keras and OpenCV were implemented. For performance reasons on mobile devices, MobileNetV2 was chosen as the architecture of the Convolutional Neural Network.

This project is licensed under the MIT License.

[github.com/medpaf/face-mask-detector](https://github.com/medpaf/face-mask-detector)

## **CBIR system**

[ 2019 ]

Developed an image processing and computer vision application. This school project is a content-based image retrieval system and was developed in Python and the OpenCV library was implemented. The histogram of each image was the parameter used to describe each one.

[github.com/medpaf/cbir](https://github.com/medpaf/cbir)

## **HONOURS AND AWARDS**

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### **CSC Scholarship Award**

Chinese Scholarship Council, PR China [ 02/2017 ]

Awarded by the Chinese Scholarship Council with a scholarship to attend a undergraduate course in the People's Republic of China.

### **MOFA Scholarship Award**

Ministry of Foreign Affairs, Republic of Taiwan [ 06/2016 ]

Awarded by the Ministry of Foreign Affairs of the Republic of China, Taiwan with a scholarship to attend a undergraduate course in Taiwan.

### **Participation in the 10th Junior University Physics Summer School**

University of Porto, Portugal [ 30/08/2014 ]

Selected by his secondary school to represent his country at the 10th Junior School of Physics at the Junior University at the University of Porto, Portugal.