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Gender: Male **Date of birth:** 01/10/1997 **Nationality:** Sao Tomean

ABOUT ME

I'm a versatile software developer with a particular interest in computer networks and cybersecurity. Apart from programming, I have personal experience administering, configuring, and maintaining UNIX/Linux systems, including Apache web servers and MySQL database servers. 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

[06/2021] **Bachelor**

Tianjin University www.tju.edu.cn

Address: NO. 135, YAGUAN ROAD, HAIHE EDUCATION PARK, JINNAN DISTRICT, TIANJIN CITY, P.R. CHINA, 300350, Tianjin, China

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

LANGUAGE SKILLS

Mother tongue(s): Portuguese

Other language(s):

English

LISTENING C1 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Chinese

LISTENING B1 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

DIGITAL SKILLS

Programming Languages

Python | Java | Bash

Front-end Development

HTML | CSS

DBMS

MySQL

DevOps

Docker | Git | Qemu/KVM | VMware | Oracle VM VirtualBox | UNIX/Linux

IT

Networking | Information Security

PROJECTS

[2021] Hawk

MedSec is a network and pentest utility that I developed so that I could perform different kinds of task 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.

<https://github.com/medpaf/hawk>

[2021] Face mask detector system

Developed a computer vision application 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.

<https://github.com/medpaf/face-mask-detector>

[2020] CBIR system

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.

<https://github.com/medpaf/cbir>

HONOURS AND AWARDS

[02/2017] **CSC Scholarship Award Awarding institution:** Chinese Scholarship Council, PR China

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

[06/2016] **MOFA Scholarship Award Awarding institution:** Ministry of Foreign Affairs, Republic of Taiwan

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

[31/08/2014] **Participation in the 10th Junior University Physics Summer School Awarding institution:** University of Porto, Portugal

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.