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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

Bachelor

Tianjin University [06/2021]

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

www.tju.edu.cn

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 A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** B1

DIGITAL SKILLS

Programming Languages
Python / JavaScript / Java / C#

Front-end Development
HTML / CSS

Back-end Development
Node.js / MySQL

DevOps
Docker / Git

IT
UNIX/Linux / Networking / Nmap / Socket

PROJECTS

Hawk
[2021 – Current]

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.

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https://github.com/medpaf/medsec

Face mask detector system
[2021]

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

CBIR system
[2020]

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

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 [31/08/2014]

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.