HENOK WEHIBE

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WORK EXPERIENCE

MicrometeUK   2022 - 2024
Lead/Full stack developer

· Led the development of an Automatic Number Plate Recognition (ANPR) as a service project, encompassing cloud infrastructure, image and video processing, API design and user interface development.
· Created Ansible roles to automate the deployment of the ANPR Parking Management application across multiple environments.
· Leveraged Redis with SSE(Server-Sent Events) to provide instant updates without the need for constant page refreshes.
· Integrated real-time video streaming using FFmpeg and OpenCV into the ANPR system, enabling continuous monitoring and analysis of vehicle traffic.
· Used pandas to clean and preprocess ANPR data, ensuring accuracy and consistency for subsequent analysis.
· Developed a new user interface with React, enhancing user experience and responsiveness.
· Integrated the React frontend with Python/Flask backend using RESTful APIs.
· Developed cross-platform desktop applications with Electron and mobile apps with Ionic, seamlessly integrating them with the ANPR Flask backend
· Built a low-power SoC IoT camera using an Arduino ESP32, integrating a camera module for video capture and transmission to the ANPR system

Freelance/Self Employed   2022 - 2023
Web Devloper

· Developed e-commerce websites, landing pages, and blogs for clients across various industries, leveraging my expertise in WordPress and React.
· Provided a comprehensive suite of services, including domain registration, email hosting, website design and development, and ongoing website maintenance.
· Offered custom website solutions tailored to clients' needs, from initial concept and design to development, deployment, and search engine optimization.
· Improved website loading speeds by utilizing Edge Computing Hosting and optimizing website performance.

PROJECT

Home Laboratory   2017 - 2022

Remastering Ubuntu/Linux distributions to install on desktops laptops and servers, Building custom images using Packer, Vagrant for development and testing environment.
· Configured KVM, Virtualbox, Proxmox and LXD for host machines to run multiple virtual machines (VMs).
· Utilizing HAProxy and Nginx for reverse proxy, load balancer, and SSL Termination.
· Creating custom wordpress themes.
· Setting up Private Docker Registry to reduce build times.
· Installation and setting up kubernetes cluster with kubeadm and Mikrok8s.

· Hosting and maintaining Gitea for private Source Code Management.
· Construction and configuration of local Servers with remote administration.

TECHNICAL TOOLS AND SOFTWARE

Configuration management	Ansible
Container orchestration	Kubernetes
Cloud Technologies	AWS and Azure
Languages	Python, Javascript and Shell scripting
Databases	MySql, Redis and Monogodb
Version Control	Git

CERTIFICATIONS

freeCodeCamp	Javascript
NodeSchool	Node.js

EDUCATION

South Thames College	Diploma, Information Technology