

# HENOK WEHIBE

<https://github.com/micrometre>

London UK

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## WORK EXPERIENCE

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### 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.
- 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 Developer*

- 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

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### 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

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

## CERTIFICATIONS

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freeCodeCamp	Javascript
46 NodeSchool	Node.js

## EDUCATION

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South Thames College	Diploma, Information 6echnology
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