FULLSTACK DEVELOPER

HARRIS AZMI ROSWADI

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https://portfoliocf.harrisviewcodes.uk/

https://github.com/harrisazmi

EDUCATION

April 2019
Petronas University Of Technology
Perak, Malaysia
Bachelor's Degree of Engineering
(Hons) Chemical Engineering

CERTIFICATION

- Full Stack Developer Bootcamp by PEOPLElogy Group
- MERN stack Bootcamp by KelasProgramming
- Cloud Practitioner (Entry Level) Runcloud Professional Certification
- Runcloud Young Technovation, Cloud Practitioner Challenge
- Data Engineering by Yayasan Peneraju
- Google Cloud Big Data and Machine Learning Fundamentals by FusionEx

CAREER AND PERSONAL OBJECTIVE

Dedicated to a purpose-driven and balanced life, I aspire to harmonize my passion for software development with personal fulfillment. Progressing towards the role of a distinguished Software Architect, my career trajectory includes milestones from Junior Developer to Associate Architect, guided by innovation and a profound understanding of technology. Committed to making a meaningful impact, I balance professional success with a fulfilling personal life.

ABOUT ME

I am Harris Azmi bin Roswadi, a dedicated Full Stack Developer with a strong focus on DevOps Practices. Leveraging my background as a Production Manager in a chemical factory, I offer a unique blend of technical expertise and organizational skills. Recognized for delivering end-to-end solutions, I excel in crafting applications and implementing robust DevOps strategies.

PROJECTS : SUCCESS STORY

Portfolio (CI/CD practice) - https://portfoliocf.harrisviewcodes.uk/

- Crafted a personal portfolio website to showcase skills and achievements.
- Technologies used : Next.js, Tailwind CSS, React, Cloudflare.
- Challenges: The resume appears to be concise, but it may lack sufficient detail. Additionally, there are instances where a printed version might be necessary.
- Solutions: In a commitment to accessibility, I have transitioned from traditional paper resumes to an online portfolio. This online approach ensures a dynamic and easily navigable platform for interested parties to reach out and engage with my professional journey.

NumazuScraper - https://project3frontendcf.harrisviewcodes.uk/

- Crafted a website that is collecting data from Japanese Meteorological Agency (JMA), for safety and life-threatening situation updates, such as Earthquake, Tsunami or Typhoon, instantly.
- Technologies used :
  - > Frontend, Backend : Node.js, CORS, dotenv, Express, HTML, CSS, Puppeteer
  - > Dev-Ops : Own Server Infra, Proxmox, Linux, Container, Docker, Dockerhub Portainer.io, Cloudflare Tunnel, PM2
- Challenges: The JMA website posed difficulties with feature overload, hindering the efficient extraction of targeted information, especially during emergencies like earthquakes. Navigating through extensive content and maps was time-consuming and inconvenient.
- Solutions: Developed a personalized scraper for Numazu-shi, enabling quick retrieval of essential information from the JMA website. This enhances efficiency and ensures timely access to critical data during urgent situations, contributing to personal safety. Scraped info are saved as in .txt and map info as image.png (High Resolution) and shared with friends and family that is staying in Numazu area.
- Dev-Ops Challenge : Own Server Infra, need to turn on server for 24/7 for access, currently turned off for cost saving since stayed at Malaysia.
- Hybrid Deployment Solutions: Utilize free static web hosting for the front-end, while the backend runs on a self-managed server. Container hosting on major platforms like AWS, GCP, or Azure is costly. Render offers a viable alternative, but backend activation necessitates manual intervention via website interaction following periods of inactivity, resulting in lengthy loading times of 1-2 minutes.

➢ Frontend on Own Server Infra : https://project3frontend.harrisviewcodes.uk/
➢ Backend on Own Server Infra : https://project3backend.harrisviewcodes.uk/
➢ Frontend on Cloudflare pages : https://project3frontendcf.harrisviewcodes.uk/
➢ Backend on Render Web : https://project3backendcf.harrisviewcodes.uk/

RELEVANT SKILLS

Language Skills
Javascript
C++
Pascal
Python

Web Skills
HTML5
CSS3

Framework/Library Skills
React.js
Next.js
Tailwind css
Bootstrap css
jQuery
Puppeteer
Jest
Mongoose

Database
MongoDB
SQL
PL/SQL
OracleDB

Stack Skills
MERN
LAMP

Other Skills
Git & Github

Dev Ops Skills
Proxmox / ESXI / Oracle VM
NGINX, Cloudflare
Postman
Docker, Dockerhub, Portainer.io
Ubuntu, CentOS

EXPERIENCE

Production Manager
Chemiz (M) Sdn Bhd
(Jan 2021 – Present)

Production Engineer
Chemiz (M) Sdn Bhd
(Sept 2020 – Jan 2021)

Sale And Technical Engineer Cum Customer Service,
Acme Chemicals (M) Sdn Bhd
(Nov 2019 – Sept 2020)

REFERENCE

Venkumar Viswanathan
Production Engineer
(+60)14 333 7317

PROJECTS : SUCCESS STORY

ToDoList - https://project1frontendcf.harrisviewcodes.uk/

- Crafted task management solution leveraging the MERN stack. The web app delivers simplicity, real-time updates, and multi-platform access. With self-deployed server infrastructure, users control deployment, tech customization, scaling, security, and performance. Seamlessly integrating DevOps ensures rapid iteration cycles.
- Technologies used :
  - Front End: React with Vite, Tailwind CSS,
  - Back End : Axios, Express, Mongoose, Node.js,
  - Dev-Ops : Own Server Infra, Proxmox, Linux, Container, Docker, Dockerhub Portainer.io, Cloudflare Tunnel, PM2, Real –Time (Polling Method)
- Challenges: To-do list apps are multifaceted. Slow loading times stems from excessive UI elements and features. Notifications leads to task-switching and reduced productivity. Complexity in app design often overshadows simplicity, while the lack of collaborative platforms adds to fragmentation. Furthermore, the learning curve deters less tech-savvy users.
- Solutions: By creating a simple to do app, trimming away unnecessary elements, it improved loading times and enhanced overall usability. Focus on simplicity empowers users to stay productive, while consolidated features ensure a cohesive workflow without the clutter. With integrated collaboration tools and intuitive design, task sharing becomes effortless, catering to users of all levels. Plus, web-based solution makes accessing tasks across devices a breeze, eliminating any installation hassles.
- Dev-Ops Challenge : Own Server Infra, need to turn on server for 24/7 for access
- Deployment Solutions: Using Render, hosting backend and frontend for showcasing project. For personal usage, deployed in own server infra, activate on demand.
- Used at own home for Todo list where another iOS app is built that redirect it straight to the website, reducing clicks and typing for web path.

➢ Frontend on Own Server Infra : https://project1frontend.harrisviewcodes.uk/
➢ Backend on Own Server Infra : https://project1backend.harrisviewcodes.uk/
➢ Frontend on Cloudflare pages : https://project1frontendcf.harrisviewcodes.uk/
➢ Backend on Render Web : https://project1backendcf.harrisviewcodes.uk/

Smart Home Server Infrastructure Setup

- Build server from scratch and deployed a customized home server infrastructure to meet diverse household needs which is website hosting and data backup.
- Technologies Utilized :
  - Virtualization: Type 1 Hypervisor (Proxmox / ESXI)
  - Operating Systems: Linux LTS 22.04, Windows
  - Containerization: Docker , LXC
  - Container Management UI: Portainer.io
  - Load Balancing: Free (NGINX – Round Robin) , Paid (Cloudflare Load balancer)
  - Application Porting: Cloudflare Tunnel, NGINX Reverse Proxy.
  - Backup Solutions: RAID 10 Config for Hard Disk, Git and Github for Web Apps, Docker Hub for Containerized App.
- Project Impact:
  - Emergency Preparedness: The ability to access critical information and services, such as the NumazuScraper project, remotely from anywhere provides peace of mind during emergencies, particularly in earthquake-prone regions like Japan.
  - Customization and Control: Building and hosting custom to-do list applications on the home server offers unlimited flexibility in design and functionality, allowing for tailored solutions to personal productivity needs.
  - Future Expansion: With a stable and flexible infrastructure in place, future plans include integrating IoT devices for home automation, further enhancing convenience and efficiency in daily life.