FULLSTACK DEVELOPER

- HARRIS AZMI ROSWADI -

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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

From Chemical Production to Code: My Journey into Tech

My career began in an entirely different world—as a **Production Manager in a chemical factory**. There, I mastered **efficiency, structured workflows, and problem-solving** in high-stakes environments. But I was drawn to something bigger: the power of technology to automate, innovate, and scale solutions beyond the physical workspace.

That drive led me to transition into software development, starting as a **Software Engineer at Bateriku**, where I worked with **Ruby on Rails**, gaining hands-on experience in **building and maintaining** web applications. It was here that I deepened my understanding of backend systems, database management, and scalable architectures.

Eager to expand my impact, I then moved into a **Full-Stack Developer role at GovTech Malaysia**, where I've spent the past year contributing to **AskGov, MyDS, and Directory**—key digital initiatives that enhance government services. Beyond development, I've started to specialized in **Frontend and DevOps strategies, optimizing CI/CD pipelines, cloud infrastructure, and deployment automation** to ensure seamless software delivery.

I thrive at the intersection of **development and operations**, building high-performance applications while ensuring they are **efficiently deployed and maintained**. My mission? **To bridge the gap between software engineering and DevOps, driving innovation in every system I build.**

RELEVANT WORK EXPERIENCES

Software Engineer| Bateriku | Feb 2024

- Developed and optimized backend services using Ruby on Rails, ensuring scalability, reliability, and maintainability.
- Designed and implemented an optimized route-matching endpoint, calculating the shortest distance between riders, Bateriku pitstops, and accident locations, improving response time and operational efficiency.
- Extensively tested API endpoints, implementing unit, integration, and performance tests to ensure accuracy, stability, and optimal response times.

Full Stack Engineer| GovTech Malaysia | May 2024

AskGov: Led frontend development and DevOps, building a modular Next.js application with i18n, ShadCN, Radix, and Tailwind CSS. Integrated Elasticsearch for efficient search and optimized CI/CD pipelines with GitHub Actions, Spinnaker, and Kubernetes, improving deployment efficiency.

Directory: Developed and integrated frontend components, ensuring seamless table functionality, i18n support, and design consistency with Figma. Optimized CI/CD pipelines with GitHub Actions, Spinnaker, and Kubernetes.

MyDS: Built and styled UI components following Figma, integrating comprehensive documentation for both components and icons, streamlining adoption across teams.

PERSONAL PROJECTS : SUCCESS STORY

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/

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.