ZAW WANA

CONTACT

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Skills & Abilities

⚛️ ReactJS, React Native

◆ Flutter

⬡ Spring Boot

⬡ ExpressJS

🔥 Prometheus

🌸 ELK Stack

🧭 Grafana

Z Zabbix

▣ VMWare

⎈ Kubernetes

🐳 Docker

🐙 ArgoCD

🧔 Jenkins

⬛ Terraform

◆ Git

Ⓐ Ansible

🐧 Linux

aws AWS

Work Experience

DEVOPS ENGINEER SINGTEL
September 2024 – August 2025

- **Automated infrastructure provisioning** using Terraform and standardized Kubernetes deployments with Helm.
- Maintained and enhanced **Jenkins CI/CD pipelines** to **streamline software delivery** and infrastructure automation.
- Implemented full-stack monitoring with **Zabbix** for infrastructure, **network**, and application **performance metrics**.
- **Troubleshoot** and performance-tuned critical data services including OpenSearch, MySQL, Redis, and MongoDB and Containers.
- Developed **Python automation** for security (IoC IP filtering) and operational (system health checks) tasks.
- Managed configuration and daily operations for containerized (**Docker**) and virtualized environments using **Ansible**.

SOFTWARE ENGINEER URBAN FARMING
Oct 2022 – Apr 2023

- **Full-Stack Development for Data Aggregation:** Engineered a full-stack web solution with a **React** frontend and **Node.js/Express.js** backend to create a centralized data aggregation hub for IoT sensors, processing real-time environmental metrics.

- **Designed Intuitive Data Visualization Dashboard:** Developed a responsive and user-friendly dashboard using **React** and **Tailwind CSS** to visually represent complex sensor data, transforming raw metrics into actionable insights on plant health and environmental conditions.

- **Enabled Data-Driven Decision Making:** By providing a single source of truth for sensor data, the dashboard empowered the urban farming team to optimize irrigation, lighting, and climate control, leading to improved crop yield and resource efficiency.

Education

Singapore Institute of Technology

- August 2022 – April 2025
- Bachelor's degree in computing science with Honors

Temasek Polytechnic

- April 2017 – February 2020
- Diploma in Business Process with Systems Engineering

SOFTWARE ENGINEER SIT UNIVERSITY
Oct 2023 – May 2024

- Architected a Scalable Data Management Platform: Engineered a full-stack web dashboard using **Flutter** for a unified cross-platform UI and **Firebase (Firestore, Auth, Functions)** for a completely serverless backend, reducing DevOps overhead and infrastructure costs.
- Delivered Advanced Business Intelligence Features: Implemented critical functionalities including dynamic **data visualization charts**, automated **Excel report generation** for stakeholder reviews, and a secure **role-based access control (RBAC)** system, transforming raw data into actionable insights for the entire team.
- **Optimized Operational Efficiency:** The dashboard automated manual data aggregation and reporting processes, saving an estimated 10+ person-hours per week and enabling real-time, data-driven decision-making for key business units.

DATA ANALYST INTERN VENTURE COPORATION
April 2019 – July 2019

- Developed IoT solutions to digitize and automate data collection in industrial environments.
- Analyzed sensor data to identify trends, anomalies, and insights using data mining techniques.
- Applied time series analysis to optimize operational efficiency and predictive maintenance.