

ZHOU JUNJIE

F U L L S T A C K D E V E L O P E R

PROFILE

A seasoned software engineer with over 14 years of experience in solution design, software development, testing, and deployment.

Junjie is keen to utilize his skills and experience to develop robust, user-focused Full-Stack solutions.

CONTACT



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Address

245 Tampines Street 21,
Singapore 521245

NOTABLE SKILLS

- Proficient in multiple programming languages, including **Python**, **Javascript** and **PHP**.
- Vast experience with designing and developing full-stack solutions.
- Highly adaptable to adopting new concepts and technologies.
- Excellent communication and interpersonal skills.

TECHNOLOGY SUMMARY

Languages

Python, Javascript, PHP, Ruby, Java

Databases

PostgreSQL, Redis, MySQL, TimescaleDB

Operating Systems

Ubuntu, Windows Server

Cloud Service Providers

Amazon Web Services, DigitalOcean, Vultr

Networking

OpenVPN, Wireguard, Cisco, Mikrotik, IPtables, DNS

Web

NGINX, UWSGI, Apache, REST API

Infrastructure as Code

Ansible, Terraform

HISTORY

Solutions Architect

FleetCraft Pte Ltd

2012 - Present

Systems Engineer

KAISquare Pte Ltd

2010 - 2012

Software Engineer

Phokki Pte Ltd

2008 - 2010

Bachelor's Degree

Computer Engineering

Nanyang Technological University

2004 - 2008

Combat Medic / Medical Logistics

National Service

2001 - 2004

Diploma in Engineering

Computer Engineering

Temasek Polytechnic

1998 - 2001

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ACCOMPLISHMENTS

- **Designed, developed and deployed a cloud-based Vehicle Telematics solution for a Singapore-based Public Transport Operator (PTO) to improve Driver Safety, Customer Experience and Fleet Maintenance. (3500+ buses)**
 - Worked with senior stakeholders in the Operations and the IT department of the PTO to understand their pain points and refine the requirements.
 - Collaborated with PTO's IT Infrastructure team, IT Networking team and Singtel to plan and build out the cloud infrastructure on Amazon Web Services and link it back to on-premise Datacentre.
 - Liaised with the hardware vendor and Singtel to figure out how to link the on-vehicle telematics hardware through Singtel's 4G Private APN to AWS.
 - Developed a Cloud Platform with a small team to collect and process telemetry from the on-vehicle telematics hardware and show it as dashboards and reports for the System end-users.
 - Collaborated with the PTO's IT Application team to integrate PTO's bus, driver and revenue service information into the Cloud Platform to enhance the user experience and improve the usefulness of the reports.
 - Designed and developed software integrations with the PTO's data analytics team to further drive insights and value for the PTO.
- **Engineered a high-performance, clustered solution that handles 3000+ GPS updates near real-time, at peak, to generate stop arrival/departure reports for mileage claims for a Singapore based Public Transport Operator**
 - Worked with senior stakeholders in the Operations department of the PTO to understand the background and refine the requirements.
 - Collaborated with PTO's IT Infrastructure and IT Networking team to provision the servers and prepare the network environment for the solution to be deployed.
 - Developed a high-throughput software solution with a small team that handles 3000+ updates at peak and uses the GPS to detect and generate stop arrival and departure data to be pushed to the PTO's systems.
 - Worked with the PTO's IT Infrastructure team to identify and resolve performance issues with the PTO's MSSQL DB.
- **Designed and engineered an on-premise WiFi Bus Depot solution for buses that**
 - Provide multi-tenancy/isolation for various disparate projects that require wireless backhaul in bus depots.
 - Made it possible to mass download and archive annotated surveillance videos from onboard devices by developing a software solution that automates the identification and downloading of said videos.
 - Worked with an outsourced Civil Engineering team to design and plan cabling runs and device placements.
 - Liaised with PTO's 3rd party vendors and PTO's IT Networking Team to integrate the 3rd party vendors' solutions into the WiFi network