

Wan Nasrul Irfan

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PROFESSIONAL SUMMARY

Highly-skilled Senior Software Engineer with over 5 years of experience designing and developing scalable full-stack applications and microservice architectures. Proven expertise in PHP, JavaScript, and modern frameworks like Laravel, Next.js, Node.js, Vue and React. Adept at optimizing system performance, implementing robust CI/CD pipelines, and delivering high-quality, maintainable code. Experienced in cloud platforms (AWS), containerization (Docker, Kubernetes), and various data stores including RDBMS and NoSQL.

EXPERIENCE

CompAsia – Senior Software Engineer

July 2024 – Present

Laravel, VueJS 3, MySQL, MongoDB, AWS, Redis, Docker, Rollbar, Jenkins, Jira, Git, Docker nginx

- Spearheaded the rapid development and deployment of a company-wide e-Invoicing system, architecting a modular solution in Laravel to meet aggressive deadlines.
- Designed and implemented the full AWS-based infrastructure (ALB, EC2, nginx, S3, MongoDB Atlas, CloudFront, Docker) and CI/CD pipelines using Jenkins, contributing research and development for a new, undocumented MDM project and delivering it successfully before the deadline.
- Drove the full-stack development of a critical Inventory Management System, leading the process from requirements analysis and design through to implementation and technical documentation.
- Established CI/CD pipelines using Jenkins for the Inventory Management System and Apple Mobile Device Management System, automating build and deployment processes to improve release velocity.
- Engineered and executed the successful integration of Apple APIs into the inventory system, streamlining data synchronization and core operational workflows.
- Significantly boosted application performance by optimizing complex MySQL queries and implementing robust caching and queueing strategies with Redis.

HiTower IT – Middle Senior Software Developer

Dec 2023 – July 2024 (Company-wide layoff)

PHP (Laravel 11), VueJS 2 & 3, PostgreSQL, RabbitMQ, Docker, GitLab CI/CD, Linux, nginx, Jira, Git, Agile

- Played a pivotal role and contributed significantly to transitioning from a monolithic to a microservices architecture, involving architecture design, planning, estimating, development, and documentation, resulting in substantial improvements in scalability.
- Pioneered performance optimization initiatives by researching and implementing micro-frontends and Laravel Octane (Swoole, RoadRunner) to enhance user experience.
- Established a culture of code quality by leading rigorous code reviews and mentoring junior developers on design patterns and professional development.

Intel Corporation – Software System Development Engineer

May 2022 – Dec 2023

Python, C++, R, P4, React, PostgreSQL, Docker, K8s, GraphQL, neo4j, Linux, Git, Agile

- Developed a highly-efficient, Python-based packet testing framework and SDK for Intel FPGA products, which significantly decreased manual testing and accelerated the time-to-market.
- Engineered a real-time database health monitoring system using Python, PostgreSQL, and Docker, preventing unused database situations and resulting in increased reliability and data accuracy.
- Proactively enhanced system reliability by identifying performance bottlenecks, leading to a significant reduction in unused storage.
- Designed and developed a talent management web application using React and GraphQL, empowering managers to strategically assign projects based on employee skills.

PETRONAS Downstream – Software Engineer

Aug 2020 – Feb 2021

Python (Flask), Bootstrap, MySQL, Git

- Initiated and led the development of the converter system and implemented multiple automation scripts which previously required manual resolution resulting an increase work efficiency and productivity.

FREELANCE EXPERIENCE & PROJECTS

Leo AI – Technical Team Lead

August 2025 – Present

Next.js, Node.js, React, MongoDB, AWS, Stripe, Vercel, Redis, Docker, Sentry, Git, Agile

- Architected and delivered a full-stack solution from the ground up, leveraging Next.js, MongoDB, Stripe, and Vercel to create a robust and scalable system for automated enterprise-level service delivery.
- Spearheaded the development of a groundbreaking AI-powered platform to digitize and automate expensive compliance consulting.
- Ensured system reliability and integrity by proactively establishing comprehensive monitoring solutions with Sentry, enabling rapid issue detection and resolution.
- Maintained a disciplined Git workflow and implemented CI/CD pipelines to streamline development and accelerate delivery.

EDUCATION & SKILLS

University of Malaya, Kuala Lumpur

2019 - 2022

Bachelor of Computer Science (Software Engineering)

First Class Degree & Dean's List Recipient

- CGPA: 3.80, Latest GPA: 4.00
- **Languages:** PHP, JavaScript, Python, Java, C++, R, SQL, HTML, CSS, P4
- **Technologies & Frameworks:** VueJS, Laravel, Node.js, Next.js, PostgreSQL, MySQL, Containerization (Docker & Kubernetes), RabbitMQ, Redis, AWS, Rollbar, Inspector, React, Git, GraphQL, neo4j, nginx, Flask, Linux, Gitlab CI/CD, Jira