Wan Nasrul Irfan

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PROFESSIONAL SUMMARY

Senior Software Engineer with over 5 years of experience designing, developing, and managing scalable distributed systems and microservice architectures. Strong proficiency in Python with extensive experience in cloud platforms (AWS), containerization (Docker, Kubernetes), CI/CD pipelines, and a wide array of data stores including RDBMS (PostgreSQL, MySQL) and NoSQL (Redis). Adept at collaborating with cross-functional teams, including data engineers and product managers, to deliver robust and high-performance platform solutions.

EXPERIENCE

CompAsia – Senior Software Engineer   July 2024 – Present
Laravel, VueJS 3, MySQL, AWS (S3, Lambda, RDS, EC2), Redis, Docker, Rollbar, Jenkins, Jira, Git, Agile

- Spearheaded the rapid development and deployment of a company-wide e-Invoicing system, architecting a modular solution in Laravel to meet aggressive deadlines.
- 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, 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.
- Mentored junior developers, providing guidance on best practices, design patterns, and professional development, which enhanced their technical skills and contributed to overall team performance.
- 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.

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, PostgreSQL, MySQL, Containerization (Docker & Kubernetes), RabbitMQ, Redis, AWS, Rollbar, Inspector, React, Git, GraphQL, neo4j, nginx, Flask, Linux, Gitlab CI/CD, Jira