JOHN PAUL DALA

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SUMMARY

Full-stack developer with 5+ years of experience building robust web applications in React, Laravel, and Python, and managing cloud-based deployments. Strong expertise in CI/CD pipelines (Azure DevOps) and DevOps best practices ensures smooth, reliable software releases. Committed to software engineering principles (SOLID, TDD, clean code) for maintainable, high-quality codebases. Continuously exploring new technologies—such as AI tools (ChatGPT, Cursor)—to drive innovation and efficiency, with a readiness to contribute to high-impact, early-stage tech teams.

SKILLS

- **Frontend**: React, TypeScript, Vite, Tailwind CSS, shadcn/ui
- **Backend & API**: Laravel, Node.js, Python, C#, .Net
- **Cloud & DevOps**: Azure, Docker, CI/CD (Azure DevOps), Private Networking (ExpressRoute), Firewalls, Database Management
- **Tools & Methodologies**: Git, Agile/Scrum, SOLID principles, Test-Driven Development (TDD, Pest PHP), Clean Code, MQTT
- **AI & Data**: ChatGPT, Claude, Deepseek, Cursor, Pandas (Python)

WORK EXPERIENCE

Senior Software Engineer – *Lingjack Engineering Works Pte Ltd*   **Sept 2021 - Present**

- **IoT Dashboard Leadership:** Led development of a new IoT administration dashboard from scratch using React + Vite (TypeScript, Tailwind CSS, shadcn/ui). Employed modern React patterns (hooks and the Context API) to create a responsive, maintainable interface for real-time industrial device monitoring.
- **Cloud Architecture:** Implemented a secure cloud infrastructure on Azure to support IoT services, including network safeguards (firewalls, private connections) and robust data storage. Translated complex configurations (e.g. private networking via ExpressRoute) into a reliable, scalable environment that ensures data privacy and high uptime.
- **Security Enhancements:** Conducted comprehensive vulnerability assessments and penetration testing (VAPT) on the IoT platform. Proactively fixed vulnerabilities and reinforced security best practices, significantly strengthening the system's defense against threats.
- **Full-Stack IoT Solutions:** Engineered end-to-end IoT solutions integrating Python for device communication, Laravel for backend APIs, and React for frontend dashboards. Enabled seamless data collection and processing across 3,000+ industrial devices, providing real-time analytics and alerts to clients. Implemented MQTT-based messaging between backend services and IoT gateways, enabling secure, reliable, and real-time data exchange and remote device management—even in unreliable network conditions.
- **Code Practices:** Drove the adoption of SOLID design principles, Test-Driven Development, and clean code practices throughout the engineering team. Pioneered the adoption of Test-Driven Development (TDD) practices within the team, introducing Pest PHP to establish rigorous automated testing workflows and elevate backend code quality.
- Maintained and enhanced a company-wide ERP system developed in C# .NET, ensuring continued reliability, system integration, and supporting evolving business requirements.

Backend Developer – *Make Technology*   **May 2021 - October 2021**

- Developed and maintained backend components and RESTful APIs for various client projects using Node.js and PHP (Laravel).
- Ensured stable integrations between front-end applications and databases, and implemented optimizations that improved API response times.
- Assisted in refining database queries and server-side logic, which boosted application performance and reliability for end-users.
- Implemented and optimized authentication, authorization, and business logic modules for client applications.
- Collaborated with front-end teams to deliver seamless, high-performing applications.
- Participated in Agile development cycles, code reviews, and testing to ensure timely delivery and robust solutions.

Software Engineer – *Northstar Solution Inc.*   **May 2019 - May 2021**

- Built and maintained responsive web applications using the Laravel PHP framework and modern JavaScript, ensuring seamless functionality and scalability for end-users.
- Identified and resolved performance bottlenecks and software bugs through diligent testing and debugging, greatly improving system stability and user experience.
- Managed additional IT responsibilities, from monitoring network performance and configuring firewalls to administering Active Directory for user access control. These efforts contributed to a more secure network and efficient internal operations.
- Collaborated with business stakeholders to translate requirements into technical specifications and deliver high-quality features.
- Managed release cycles, updates, and maintenance to ensure business continuity and data integrity.

Lead Developer - *Cloudcompass Technologies*   **Oct 2018 - May 2019**

- Served as Lead Developer on a major payroll system project, overseeing the implementation of core features and resolving critical issues.
- Designed and developed new modules and functionalities to improve the accuracy and usability of payroll processes.
- Collaborated closely with the project team to implement solutions and ensure seamless integration between frontend (AngularJS) and backend (Laravel) components.
- Provided hands-on bug fixing and technical guidance, supporting project delivery timelines.
- Implemented source control and documentation standards, supporting smooth delivery and knowledge transfer.

Software Development Intern - *Convey Health Solutions*   **Aug 2018 - Dec 2018**

- Developed automation software to generate custom documents from structured data files, significantly reducing manual workload.
- Created letter templates with variable placeholders, then used scripting to dynamically populate documents with data.
- Assisted in migrating legacy software to updated systems by creating scripts to automate the conversion of old data files, streamlining the transition process.
- Gained practical experience in process automation and scripting for enterprise-level software solutions.

PROJECTS

- **Web-Based Beach Resort Booking System:** Developed a full-stack booking platform using Laravel for backend APIs and React for the frontend. Integrated Clerk for user authentication, implemented automated email notifications, and enabled secure online payments with a third-party gateway.
- **IoT Monitoring Dashboard (React, Python, Azure, Laravel):** Led the development of a cloud-based IoT dashboard featuring real-time visualizations, device health monitoring, and interactive analytics. Deployed via Azure DevOps pipelines for zero-downtime releases.
- **On-Premise IoT Monitoring System:** Built an offline-first monitoring solution for industrial equipment, deployed on local gateways to deliver sub-second data processing even without cloud access.
- **In-House Asset Management Portal:** Designed and launched a web portal to track company assets and generate interactive dashboards, reducing manual reporting and improving asset accountability.
- **Team Registration & Management System:** Delivered a platform for handling event registrations, user roles, and scheduling, featuring secure APIs and an intuitive React admin dashboard.

EDUCATION

Bachelor of Science in Information Technology   2015 - 2020

FEU Institute of Technology
- Specialization in Web & Mobile Application
- Thesis on "Web & Mobile Booking & Reservation with monitoring application for Royal HM Taxi Services Inc."