

Yan Paing Oo

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Summary

Detail-oriented and results-driven Full-Stack Developer & DevOps Engineer with proven success in building scalable applications and driving automation across diverse industries. Experienced in leading backend architecture, mentoring teams, and delivering production-grade solutions from concept to deployment. Recognized for optimizing system performance, streamlining development workflows, and enhancing user experience in fast-paced environments.

Professional Skills

Cloud & DevOps: AWS, GCP, Azure, Docker, Kubernetes, Helm, Ansible, Terraform, Prometheus, Grafana

Programming & Backend: Python, Bash, JavaScript, Go, Node.js, RESTful APIs, Microservices

Frontend Development: React, Next.js, Vite, Shadcn UI, TanStack Query

Databases & ORM: PostgreSQL, MongoDB, Redis, Prisma

CI/CD & Infrastructure Tools: GitHub Actions, EKS, GKE, AKS, JIRA

Languages: English (Professional Proficiency)

Experience

Full-Stack & DevOps Engineer

Pluggi

Feb 2025 – Present

- Leading **backend and infrastructure design** from the ground up, architecting a **scalable NestJS backend** with a focus on performance, maintainability, and system resilience.
- Independently developed an **in-house bot-system builder** with a **React Flow-based visual UI**, enabling non-technical users to design and deploy chatbot workflows more efficiently.
- Co-developed a **state management system** using **XState** with custom extensions, collaborating closely with one senior developer while **mentoring a junior engineer** to improve team capability.
- Driving development of a **professional-grade chatbot application for the U.S. market**, ensuring high standards in **scalability, usability, and user experience**.
- Delivered **optimized backend integrations** that streamlined chatbot operations and improved **real-time user interactions** across multiple channels.

Associate Software Engineer

Brillar Pte.ltd

Feb 2024 – Jan 2025

- Developed a **real-time mobile testing web application** integrating **Appium (Android & iOS)** with **Selenium** and **Tosca**, enabling seamless cloud-based testing.
- Independently developed a macOS installer to deploy the testing platform, reducing setup time for end-users by **40%**.
- Implemented **CI/CD pipelines** using **GitHub Actions** and **Docker**, cut deployment cycle by 30% workflows and improved **staging & development environments** for the Gen-AI team.
- Designed and delivered **LangChain-powered chatbot solutions** integrating **ChatGPT, Gemini, and Mistral AI**, reducing response latency by 20% and enabling seamless real-time streaming conversations within both Next.js chat windows and iframe-based chatbot applications.

Software Engineer in Test

Brillar Pte.ltd

Aug 2022 – May 2023

- Developed and executed 150+ automated end-to-end test scripts using **Tricentis Tosca**, increasing test coverage by 35% and **reducing manual testing time** by 40% for a leading **Singapore-based payments services group**.
- Collaborated with developers and UI/UX teams to align testing with business requirements, reducing post-release defects by 25%.
- Designed and implemented performance/load test plans for RESTful APIs using JMeter, identifying bottlenecks and improving API throughput by 30%.
- Led API testing, load testing, and stress testing for a **Hong Kong-based banking system**, ensuring 99.9% *reliability* under production-scale traffic.

Academic Background

University of Information Technology Bachelor of Computer Science in Knowledge Engineering AI, ML & Computer Vision

Projects

Leave Management System

- Designed and developed a web-based leave management system using React, Axios, TanStack Query, and React Data Table.
- Built modules for Admin (policy management, team leave tracking) and Employees (leave requests, team calendar view).
- Digitized leave requests, shifting from manual Excel/email tracking to a modern system, **reducing admin workload by ~40%** and improving leave planning efficiency.
- Improved team transparency by enabling employees to view team leave schedules for better planning.

Rice Factory Management System with Localization

- Led end-to-end development of a factory management system tailored for a rice production business, from system design to on-premises deployment.
- Implemented NestJS, PostgreSQL, Prisma, Vite, TanStack Query, and Shadcn UI for scalable and user-friendly architecture.
- Delivered analytics dashboards for tracking production and sales, **cutting report preparation time by ~60% and improving decision-making accuracy**.
- Deployed on local infrastructure using Docker, Traefik, and Cloudflare, ensuring **>99% uptime** and secure, stable rollout.
- Enhanced customer operations through a localized, easy-to-use platform that improved precision in business tracking and decision-making.

Certificates

- [Automation Specialist Level 1](#)
- [Automation Specialist Level 2](#)
- [NeoLoad Specialist](#)
- [Information Technology Professionals Examination Council Common Examination.](#)