

NGUYEN QUOC TOAN

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Aspiring Software Engineer with experience developing backend systems, cloud-native solutions, and microservices architectures. Skilled in Java and Python. AWS Certified Solutions Architect with expertise in system design, automation, and DevOps.

EDUCATION

Singapore Management University (SMU) **2022 – Present**

- ◇ BSc Information Systems | Product Development, 2nd Major in Cybersecurity
- ◇ **Relevant Coursework:** *Object Oriented Programming, Enterprise Solution Development, Software Project Management, IT Solution Architecture, Data Structure & Algorithm*

Temasek Polytechnic **2019 – 2022**

- ◇ Diploma in Logistics and Operation Management

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, SQL

Technologies: Spring Boot, FastAPI, Node.js, React, React Native, SQL/PostgreSQL, AWS (EC2, S3, RDS, VPC, API Gateway), Apache Kafka, RabbitMQ, Git/GitHub Actions

Others: UiPath, Power Automate

CERTIFICATIONS

- ◇ AWS Certified Solutions Architect – Associate

PROJECTS

Inventory Management System (*React, FastAPI, PostgreSQL, AWS*) – team of 6 **Jul 2025 – Present**

- ◇ Delivered core workflows to centralize inventory, surface low-stock signals, and draft purchase orders based on product–component mappings and approval steps.
- ◇ Building a forecast-to-order loop with regular model updates and basic accuracy tracking, aiming to cut manual admin time by ~50% and reduce stockouts/overstock.

CRM System (*Spring Boot, RBAC, AWS*) – team of 8 **Aug – Oct 2024**

- ◇ Implemented the transaction microservice in Spring Boot and integrated with a bank SFTP server; designed for fault tolerance & disaster recovery on AWS.
- ◇ Streamlined user management, transaction tracking, and admin workflows across services.

E-Commerce Web App (*Microservices, Flask, Python, Node.js*) – team of 6 **Feb – Apr 2024**

- ◇ Led full-stack delivery of a microservices e-commerce app with REST APIs; implemented order placement, tracking, modification, and Stripe payments.
- ◇ Coordinated front- and back-end workstreams to ship end-to-end flows.

Event Master Management (*Spring Boot, RBAC*) – team of 5 **Feb – Apr 2023**

- ◇ Built an event management system with role-based access control, secure user management, scheduling, bookings, and ticketing services.

EXPERIENCE

DoDo Seafood Treats | Document Approval System – team of 5

Nov 2021 – Jan 2022

- ◇ Led a digitalization project that streamlined document approvals, achieving a **30% reduction** in approval time by eliminating paper-based processes.
- ◇ Facilitated stakeholder meetings to gather requirements, align expectations, and coordinate on-time delivery.

COI-SCM | Intern

Mar – Jul 2021

- ◇ Built an app with AppSheet & Power Automate to digitize paper processes, saving clients **20+ hrs/week** in manual work.
- ◇ Led development of Leave & Overtime Management features used by 60+ staff; streamlined assignment/registration and removed paper-based steps.
- ◇ Analyzed **20+ business processes** to surface bottlenecks and propose automation improvements; aligned solutions with stakeholder goals.
- ◇ Delivered 3 automation workshops (UiPath, Power Automate) training **50+ professionals** to self-serve basic automations.

Les Amis Group – NamNam | Service Staff

2017 – 2021

- ◇ Delivered friendly, efficient service in a fast-paced setting; handled special requests and on-the-spot issues with attention to detail and composure.

COMMUNITY SERVICE

OTR Listens | Volunteer

Jan 2025 – Present

- ◇ Offer safe, anonymous emotional support to those in need through the OTR online platform, providing a compassionate, non-judgmental space for individuals to share thoughts and feelings and empowering users on mental wellness journey while fostering a supportive and inclusive community