

Foo Yong Qin (Tanamate)

(+65) 9639 9259 | yongqin3759@gmail.com | [linkedin.com/in/foo-yong-qin/](https://www.linkedin.com/in/foo-yong-qin/) | Singapore Citizen

EDUCATION

National University of Singapore

Master of Computing in Computer Science

Aug 2021 - Dec 2023

Singapore

Nanyang Technological University

Bachelor of Aerospace Engineering with Honors (Distinction)

Aug 2016 - Jun 2020

Singapore

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, C#, Java, C, TypeScript

Frameworks & Technologies: HTML, CSS, Node.js, React, Spring Boot, SQL, GraphQL, MongoDB, MariaDB

Software Tools: Word, Excel, JIRA, SolidWorks, MATLAB, SharePoint, Power Automate

Spoken Languages: English (Proficient), Thai (Conversational), Mandarin Chinese (Basic)

WORK EXPERIENCE

DBS Bank Ltd.

Full Stack Web Developer

Mar 2022 - Present

Singapore

- Developed a React app, employing global state for user-specific filtering and integrating Elasticsearch for optimal data retrieval using Node.js express for backend and Redux for front-end.
- Reduced inconsistent filtering for users when viewing data across pages through the global state, resulting in a reported 30% increase in positive user feedback.
- Minimized code duplication by 48% in a crucial module, cutting lines from ~1500 to ~780, and enhanced cross-cutting concerns through Aspect-Oriented Programming for increased efficiency and error prevention in future modifications.
- Orchestrated Spring Boot microservices with RESTful APIs for audit logging in MariaDB, leveraging Kafka for seamless data stream handling and storage, resulting in streamlined data processing and reduced query response times.
- Increased test coverage for backend functionality across each microservice, ensuring >80% code coverage.
- Designed and upgraded application architecture via seamless integration of GraphQL in Java backend, paired with Apollo Client in frontend, contributing to reduction in data transfer latency.

Capgemini Singapore

Backend .NET Developer

May 2021 - Mar 2022

Singapore

- Drove seamless migration of API endpoints for Ministry of Manpower (MOM) Dashboard application, achieving 20% increase in user satisfaction and 50% reduction in bug reports, down from ~9.2 every 2 weeks to 4.7 code bugs over 3-month period.
- Identified and remediated 60 Fortify Scan issues in source code, addressing Database Access Control, Cross-Site Request Forgery, Cross-Site Scripting, and heap inspection vulnerabilities, safeguarding system against potential threats.
- Contributed to bug-fixing incident resolution for the MOM, enabling swift and effective resolution of issues to maintain application functionality and performance.

Johnson & Johnson

Software Engineer, Web Developer, Digital Team

Sep 2020 - Apr 2021

Singapore

- Developed a web application for real-time team health and energy monitoring, achieving significant reduction in data retrieval latency and optimizing workflow automation utilizing PowerApps, SharePoint, and Power Automate.
- Redesigned, maintained, and deployed the PHuman website, optimizing functionality and streamlining content management through HTML, CSS, and JavaScript, allowing non-technical users to make modifications without additional development.

PROJECTS

MongoDB performance study for Security and Privacy - Capstone Project – NUS

Jan 2023 - Present

- Investigated and optimized MongoDB time-to-live functionality, achieving 77% reduction in deletion time with the database able to handle 5x more data deletion to reduce the risk of unauthorized access and handle 1MM+ documents within 10 minutes.
- Reduced maximum deletion times from 262 seconds to 61 seconds.
- Developed a secure backend system to store personal data and implemented efficient mechanisms for timely removal from the database when required, reinforcing data privacy measures.