

Terence Kong

Software Engineer. DevOps. Full Stack Developer.



Skills

Languages

Java, Javascript, Typescript, Python

Frameworks

Angular, React, Springboot, Kafka

Tools

Git, Docker, AWS

Experience

MSI Global Pte Ltd

ASSOCIATE CONSULTANT

LTA Bedok Campus

Nov. 2020 - Apr. 2022

- Technical Lead for the BTS Skytrain backoffice fare collection system. (Java, Swing, Quartz Scheduler)
- Led the backend team for the Pink and Yellow Line Extension Project.
- Led various initiatives to improve the maintainability of legacy applications such as framework upgrades, introducing the use of version control systems and adding unit testing.
- Developed microservices for the Bangalore backend QR code ticketing system (Springboot)

PSA International Pte Ltd

SENIOR SYSTEM ANALYST

Tanjong Pagar Complex

Jun. 2018 - Jul 2020

- Developed a generic housekeeping framework to orchestrate archival of database records for microservices. (Kafka, Java, JPQL)
- Built microservices and Angular applications for tracking container movement within the port (Angular, Springboot, MySQL)
- Managed framework level components including the analysis, design and development of new components as well as the maintenance and upgrading of existing components. (StorybookJS, Angular, Springboot)
- Technical Lead for testing frameworks. (Katalon)
- Technical Lead for Data Warehouse and ETL Pipeline Infrastructure (Kafka, Kafka Connect, Debezium, Springboot)
- Technical Lead for git infrastructure (On premise Gitlab).

PSA Singapore

INTERN

Tanjong Pagar Complex

May. 2017 - Oct. 2017

- Developed Angular components and Data Visualisations for ship schedules (D3, Angular and PrimeNG)
- Developed custom stylesheets and themes for Angular components (CSS, SASS)

Education

National University of Singapore

Bachelor of Computing (Computer Science) With Honours

Jun. 2018

Projects

CakeChef

- An Open Source, 2-in-1, binary file reader/writer.
- YAML based configuration with support for dynamic configuration (variables, loops, conditional statements).
- Support for various encoding/decoding formats (endianness, date/string/integer)
- Convenience utilities (crc32 generator)
- Built in Javascript and NodeJS.
- CI/CD Pipeline using Gitlab CI to run Jest tests.

Familiar Beasts (WIP)

- A browser based battle simulator where players form teams of familiars and do battle.
- Full serverless - Vercel, PlanetScale, Ably
- A Modern Stack - NextJS, NextAuth, React, TailwindCSS, Prisma, AJV
- Built in Typescript with end-to-end type safety.

Certifications

AWS Certified Cloud Practitioner

Amazon Web Services (AWS)

May. 2022 - May. 2025

AWS Certified Solutions Architect

Amazon Web Services (AWS)

Aug. 2022 - Aug. 2025