

# Terence Kong

Software Engineer. DevOps. Full Stack Developer.



## Skills

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### Languages

Java, Javascript, Typescript, Python

### Frameworks

Angular, React, Springboot, Kafka

### Tools

Git, Docker, AWS

## Experience

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### 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)
- Led an initiative to introduce testing frameworks such as Katalon into our development process.
- Built up Data Warehouse and ETL Pipeline Infrastructure (Kafka, Kafka Connect, Debezium)
- Led an initiative to introduce git infrastructure (On premise Gitlab) to our development processes, replacing SVN.

### 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

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## National University of Singapore

Bachelor of Computing (Computer Science) With Honours

Jun. 2018

# Projects

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### 00 Raiser

- A Discord bot for managing AWS instances of server based games such as Minecraft, VRising and Core Keeper.
- Programmatically spins up ec2 instances for the game specified.
- On termination, automatically backs up the volume data into a snapshot and generates a new AMI image to be used in the next gaming session. (Eventbridge, Lambda, Python)

### 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

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### AWS Certified Cloud Practitioner

Amazon Web Services (AWS)

May. 2022 - May. 2025

### AWS Certified Solutions Architect

Amazon Web Services (AWS)

Aug. 2022 - Aug. 2025