

NGUI TZE KEN

Software Engineer

git.riftpixel.com

isaacntk

isaacntk@gmail.com

SKILLS

- Java
- SQL
- Python
- HTML
- CSS
- TypeScript
- Git
- Linux
- Kubernetes
- Docker
- CI/CD
- Cloud Native

EDUCATION

GCP Associate Cloud Engineer

Jan 2022

AWS Solutions Architect

Mar 2021

Staffordshire University

Software Engineering | 2013 - 2017

Dual Degree BSc (Hons) - 3.83 CGPA

Asia Pacific University

Software Engineering | 2013 - 2017

BSc (Hons) - 3.83 CGPA

PROFILE

I'm a software engineer who has led **teams of developers** in developing distributed **Java** microservices using technologies such as **Kubernetes, Kafka** and **AWS** for multiple fintech and banking projects in the APAC region. My most valuable skill is the **ability to learn anything quickly**. I run a home server for personal projects which includes a **Kubernetes cluster** and self-hosted GitLab

EXPERIENCE

Software Development Engineer

Nov 2022 - Present | Amazon

- Developed an internal service which handles the classification of **7 million accounts** in AWS, facilitating AWS Billing Conductor in reducing bill calculation time
- Optimized a Java **AWS Lambda** to bring its memory usage down from **10GB to 370MB** and duration from 9 minutes **down to 1 minute** by using Java Streams and concurrency
- Designed and developed an orchestrator for AWS Billing Conductor to enable seamless migrations between different workflows. This component handles 8 million bills every run and has enabled **~\$7MM** in savings per month
- Write self mutating, configurable CI/CD pipelines using **AWS CDK** which incorporates integration tests, canaries and automatic rollbacks

Software Engineer

January 2018 - Oct 2022 | Accenture

- Developed multiple banking/fintech projects in the APAC region using **Java Spring Boot** microservices and **Kafka** deployed with **Kubernetes**
- Led a back-end team of 3 developers and maintained a unit **test coverage of over 90%** for the Sonarqube scan on our **Jenkins CI/CD** pipelines
- Deployed applications on on-premise **JBoss** servers, fully cloud-based and hybrid on-prem+cloud with **AWS direct connect**
- Developed middleware for a digital lending app that **reduced metered API calls by 75%** by caching data with **Redis**
- Developed an authentication solution for a banking application which utilized **Thales HSM**

Software Development Intern

October 2016 - January 2017 | Fotokem Sdn. Bhd.

- Developed an **Android** application for internal use that generated void codes from receipt numbers and featured **OCR scanning** of said receipt number
- Wrote a repair order management system for camera equipment in **C#** which used an **MS SQL** database
- Developed an attendance tracking system in **C#** which interfaced with the office's fingerprint scanner

PROJECTS AND AWARDS

Homelab - Ongoing

Host multiple services on a home server such as Nextcloud and GitLab on Proxmox - a hypervisor and some personal projects on a **virtualized kubernetes cluster** with Rancher

Innovathon 2023 - AWS - Sep 2023

Won an internal hackathon by pitching and developing an idea with **AWS Lambda** and **DynamoDB** to skip billing fraud accounts

Tech Star FY'19 - Accenture - May 2019

Was one of only 11 employees across Singapore, Malaysia, Indonesia and Thailand awarded based on our impact in our respective projects

Top Idea & Execution - Windows Phone development workshop by Microsoft - May 2013

Developed a music visualization app on Windows Phone on the **UWP platform** during a windows phone workshop