NGUI TZE KEN

Software Engineer

git.riftpixel.com

in isaacntk

SKILLS

Java

• Git

• Kotlin

• Linux

• Python

Kubernetes

TypeScript

Docker

• SQL

CI/CD

Networking

• Infra as Code

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

EXPERIENCE

Software Engineer

Nov 2022 - Present | Amazon Web Services

- Designed and developed a cell-based orchestrator for AWS Billing to accelerate the monthly billing process and automate previously manual steps. This project has resulted in an annualized \$659MM impact in FCF for 2024
- Developed an internal service which handles the classification of 8 million accounts in AWS, facilitating AWS Billing in reducing bill calculation time
- Wrote self mutating, configurable CI/CD pipelines using AWS CDK which incorporates integration tests, canaries and automatic rollbacks
- Optimized an AWS Lambda function to bring its memory usage down from 10GB to 370MB and duration from 9 minutes down to 1 minute by refactoring into a Java stream

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
- Designed transaction reporting solutions for a corporate portal banking app which used Kafka and Camunda rule engine
- 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 and 2FA

PROJECTS AND AWARDS

Homelab - Ongoing

Tinker with a home kubernetes cluster using gitops to deploy services like Nextcloud, GitLab and some personal projects. Also to explore machine learning and multi-modal generative AI models

Innovathon 2023 - AWS - Sep 2023

Won an internal hackathon by pitching and developing an idea which leveraged **AWS Lambda** and **DynamoDB** to stop fraudulent accounts from being billed

Tech Star SEA FY'19 - Accenture - May 2019

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

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

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