

Goh Chung Sern

PROFILE

I am a software engineer with a genuine passion in technology, and this motivation drives me to deliver my best work.

I used to be a competitive Kendo player and represented my country in 12th ASEAN Kendo Tournament in 2019.

CONTACT

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LANGUAGE

English

Chinese

PUBLICATION

Development of a Social Assistive Robot for Elderly Care (urn: dai:10.1999/1307-6892/22885)

Research and Development of The Social Robot Using Speech Recognition and Image Sensing Technology (DOI: 10.1109/ICITEED.2015.7408914)

EMPLOYMENT

CITI

Technology Analyst (Equities Technology)

Aug 2019 - Present

- Contributed mainly as **Backend Java developer**, leveraged on Citi's internally built low latency microservice framework **Ambrosia** as engine backbone. Ensured good code quality, design pattern and test coverage for engine development
- Developed a client migration platform to onboard internal and external clients to new platform. Implemented **best practices** such as high availability, entitlement control, audit tracking and maker checker to migration platform. Integrated with engine services to support intraday migration or rollback of clients during live market trading hours
- Spearheaded various utility services and developed their UI based on **React** and **Elemental** - a Citi built design framework for frontend development with a consistent Citi brand
- Developed a highly customisable and configurable **DevOps** application, which serves an essential role in areas such as database recovery, clean-up, and recon; server clean-up and archiving auditable data to **Amazon S3**; aggregate information snapshot across servers

Java 8, Spring, Couchbase, React, Amazon S3, Teamcity, Udeploy

Technology Analyst (Cross Product Technology)

July 2018 – Aug 2019

- Worked in an agile setting to deliver market data solution for Citi's flagship portal – Citi Velocity
- Developed data sourcing and recon microservices in **SpringBoot**, which spans across asset classes and products. Worked with senior developer on experimenting with improving data pipeline using **Hazelcast**
- Assisted Senior Business Analyst to perform data analysis to ensure delivery of quality market data and collaborated with market research team to develop data sourcing **VBA** macro
- Configured **Logstash**, **Elasticsearch** and **Grafana** to monitor usage and error of data services

Analyst Flagship Project – Anomaly Detection Platform for FX Data

- Utilized timeseries machine learning algorithm (**Isolation Forest**) and **Z-Score** to streamline anomaly detection for market data. Successfully identified anomalies from data source proactively before reported by users.
- Developed UI to perform analysis and report generation using **React** and **Flask**

Java 8, Spring, Oracle SQL, Hazelcast, ELK, Grafana, React, Python

THALES SOLUTIONS ASIA PTE LTD

May 2017 – Aug 2017

Backend software engineer, Intern

- Built a containerized distributed infrastructure to streamline and scale data pipelines for operator to ingest, aggregate and analyse sensor data

Kubernetes, Docker, ELK, SpringBoot, ZeroMQ, HBase

COGNIZANT TECHNOLOGY SOLUTIONS

May 2016 – Aug 2016

Software Summer Intern

- Developed a web platform for financial institutions to govern risk and compliance on a 1-month timeline. Improved assessment efficiency by 15%

Node.js, Bootstrap, NoSQL, JQuery

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE (NUS)

Aug 2015 – May 2018

- Bachelor of Electrical Engineering with Honours
- Design Centric Programme (DCP) – Innovation System Track
- Final Year Project – Cloud-Based and Scalable Virtual Reality Platform with Data Analytics
- CCA: NUS Kendo Club (Captain), NUS Students' Union - COMMIT

NANYANG POLYTECHNIC (NYP)

Apr 2012 – Mar 2015

- Diploma in Mechatronics Engineering with Merit, GPA: 3.96
- Festo Award for outstanding final year project (Development of Speech and User Interaction for Social Robot)
- Overseas Programme at National Institute of Technology, Kitakyushu College, Japan