



# LOW KAH WEE

COMPUTER SCIENCE GRAD

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## EDUCATION

**Singapore University of Technology and Design (SUTD)**

- Bachelor of Engineering (Information Systems Technology and Design | Majored in Business Analytics and Artificial Intelligence)
- May 2016 to Sep 2019

## AREAS OF EXPERTISE

Programming languages: Java, Python, C#, HTML/CSS/JavaScript

Adobe Cloud: Photoshop, Illustrator, Premiere Pro

Data Mining: BeautifulSoup4, Selenium

Data Visualization: R, QGIS, Tableau

Database: SQL, Oracle, Firebase, PostgreSQL

Machine Learning: Deep learning, NLP, Computer Vision.

Reinforcement learning

Familiar Technologies: Linux, google map, twitter api,

docker, trading view, FIX



## WORK EXPERIENCES

**Worked as Application developer at Asia Management Fund Nov 19 to Jan 20**

Build sorting algorithm in quantitative trading application for traders.

Maintain FIX and quantitative trading system to ensure smooth workflow for traders

**Interned as full stack web developer at Unbabel**

**May 18 to Aug 18**

Made an event logger in the backend server of Unbabel website to allow tracking of events for developer and administrative use for other departments

Send the events via rabbitmq to kubernetes platform for data visualisation

**Interned as data scientist at Astrio Pte Ltd**

**May 17 to Aug 17**

Organise relevant flight information and cargo information from Oracle SQL database on Changi SATS Cargo Terminal.

Process the important information using python scripts and display it using

Visualization Tools

## ACADEMIC PROJECTS

**Cancer Cell Detection**

Apply Deep Reinforcement Learning Techniques such as using Open AI Gym and Pytorch to train a model to identify cancer cells

**Security Robot: Computer Vision**

Develop Computer Vision model using SSD-300 with VGG-16 and interfaced with Robot Operation System(ROS) for Lidar detection for threat detection in Airport

Achieve an accuracy of 70% over 5 different images

**Derivative pricing and risk management:**

Studied about bonds, futures and options enabled me to use various hedging techniques to mitigate financial risk and detect arbitrage opportunities

Develop trading algorithms such as Monte Carlo, binomial option pricing, Black Scholes

**Anomaly detection on water plants**

Train machine using Variational Auto-encoder from 41000 data and 34 variables to detect attacks on water plants

Visualize data using Tableau to identify patterns and achieve an accuracy rate of 80%

**Sentiment Analysis**

Build Hidden Markov Model from scratch to classify sentiments of English Language

Achieve an initial accuracy of 58% from training over 60000 sentences.

**Stocks prediction**

Created a script to mine tweets from top 10 companies over the period of 10 years.

Clean redundant data and predict their stock price using LSTM based on tweets using sentiment analysis.

**European Innovation Academy**

Develop a website in django to fit a platform available using google maps API for real time updates on construction sites in the form of 2D, 3D and 360 images for companies to visualize better and perform relevant analysis

**Map visualization of gun violence in America**

Map out the gun violence in different states in America using R and QGIS to find out the cause of gun violence

## CO-CURRICULAR ACTIVITIES

**President, Captain, Baseball Club**

**May 16 to Dec 18**

Lead the team for Baseball Competition

Organise Sports Carnival and baseball clinics for the school.

Conduct trainings for the members, imparting the basic fundamentals in them.