

# Lim Yen Kai

hireyklam@gmail.com | (65) 88834821



## Professional Experience

---

### CTC Global Pte Ltd

Project Engineer

Singapore, Singapore

September 2022 - Present

- Increased productivity of employee within the company of over 250 employees by developing an internal batch document translation application (**Azure Cognitive Services**) and **generative AI** chatbot to aid with answering common queries about the organisation.
- Developed a **GAI** chatbot that utilises fine-tuned LLM models and to address HR related inquiry.
- Completed training on AI/ML obtaining skills to train, test and deploy machine learning models on various cloud infrastructure (**AzureML, GCP, AWS Sagemaker**)
- Automated repetitive tasks using **Ansible** according to client needs and use cases, which translates to over 90% reduction in manual work and increasing consistency of tasks.
- Integrated **Elastic Stack** and onboarded Elastic Agents on hosts which allows for visually appealing data visualisation and analytics

### Coder FiftyThree

Full Stack Software Engineer Internship

Kuala Lumpur, Malaysia

June 2021 - September 2021

- Developed frontend of a website accessed by over 1000+ users using **Angular**
- Full stack development on mobile application using **Xamarin and C#** which is used within an organisation of over 10,000 employees
- Evaluated over 15 different APIs containing data to be called into the application.
- Source control management tool (**GitHub**) was utilised to track code changes.

## Technical Skills

---

**Backend Development** | Python • JavaScript • Java • C#

**Frontend Development** | HTML • CSS • TypeScript • Angular • ReactJS

**Machine Learning** | Tensorflow • Keras • PyTorch • Scikit-Learn • Apache Spark • Databricks • Matlab

**Generative AI** | NLU • LLM • Prompt Engineering • Hugging Face

**Cloud Platform** | Microsoft Azure • Google Cloud Platform • Amazon Web Service

**DevOps** | Ansible • OpenShift • Docker • Kubernetes • Git

**Miscellaneous** | Hadoop • SQL • YugabyteDB • Django • Flask • Elastic

## Personal Projects

---

### Analysis on Amazon Sales Data

- Cleaned dataset so that meaningful analysis can be carried out
- Did correlation analysis on data which uncovered factors that influences sales.
- Carried out univariate analysis on 3 relevant parameters to investigate the impact made by each parameters.

### Sales prediction of Amazon products Using Machine Learning

- Did feature extraction on cleaned dataset so that machine learning training can be done.
- Utilised scikit-learn to train, test and evaluate machine learning model using different machine learning algorithms.
- Achieved an R-squared score of 0.94 on the best model.

### Classifying Handwritten Digits using Deep Learning

- Implemented Neural Network to perform handwritten digit classification, demonstrating proficiency in deep learning and computer vision techniques.
- Designed and implemented a convolutional neural network architecture tailored for handwritten digit recognition.
- Utilised PyTorch to train the CNN on the prepared dataset.

### Singapore Carpark Recommendation App (Swoop)

- Created an application using React Native that involves collecting carpark details on the whole island using API provided by Land Transport Authorities (LTA)
- Enables user to carry out different actions such as locating carparks near their location
- Allows user to search for a target location to which the app will recommend a carpark near there and set a driving route to it using Google Routes API.

## Education

---

### The University of Nottingham

BSc Computer Science with Artificial Intelligence

Sep 2019 - Jun 2022

FIRST CLASS HONOURS

- Dissertation: Parking Lot Recommendation System Using Machine Learning
- Big Data Project: Correlation Analysis of Tweets and Actual 2016 US Presidential Election Result
- Designing Intelligent Agents: Self-driving car using Reinforcement Learning

## Certifications

---

Neural Network and Deep Learning (Coursera)

March 2023

Red Hat Certified Engineer

December 2023

Red Hat Certified Specialist in OpenShift Administration

March 2024