Lim Yen Kai

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Skills

- Python | Tensorflow | Keras | PyTorch | Scikit-Learn | Apache Spark | Databricks | Matlab | LLM
- Prompt Engineering | Hugging Face | Azure | GCP | AWS | Ansible | OpenShift | Docker | Kubernetes | Git
- Hadoop | SQL | Bootstrap | Django | Flask | Elastic | JavaScript | Java | C# | Frontend | Backend | Full-Stack
- TypeScript | Angular | React | Dart | Flutter | Xamarin | DevOps | MLOps | English, Mandarin, Malay, Cantonese

Experience

Project Engineer — **CTC Global SG** — **09/2022 - Present**

- Drive the design and development of LLM solutions to expand organisation product offering using the latest technologies **AWS, ChromaDB, Python, Transformers, PyTorch and Hugging Face**
- Implemented efficient LLM inference server APIs using **vLLM** accelerating serving throughput by up to 24x compared to Hugging Face Transformers.
- Designed and developed **Ansible** automation script for user ID creation in Entra ID, eliminating 90% of manual tasks and increasing consistency.
- Integrated **Elastic** Stack to monitor internal servers, anomalies detected within the server is automatically flagged out by sending an alert message through Slack.

Software Engineer, Intern — **Coder FiftyThree** — **06/2021 - 09/2021**

- Full stack development of a mobile application used for tracking of stock count within a company using **Xamarin.Forms and C#**
- Implemented frontend of a website using **Angular**, ensuring that it is responsive to different device sizes using **Bootstrap**.

Education

The University of Nottingham — **09/2019 - 08/2022**
Nottingham, UK

BSc Computer Science, Major in Artificial Intelligence

Projects

- **Sales Prediction of Amazon Products**: Cleaned, analysed and trained a Machine Learning model that can accurately make prediction on unseen data. Link to repository.
- **Handwritten Digit Classifier:** Trained a CNN model using PyTorch to accurately identify hand written digits. Link to repository.
- **Drowsy Driver Detection**: Large amount of pictures with examples of opened and closed eyes were used to perform transfer learning on MobileNet computer vision model. Link to repository.
- **Swoop!**: A mobile application built with React Native that provides near real-time details of parking facilities across Singapore. Users can set a desired location, and based on the occupancy and distance of nearby parking facilities the app recommends and sets a waypoint to the most suitable option using the Google Routes API.

Certifications

Deep Learning Specialization (Coursera) — **03/2023**
Red Hat Certified Engineer — **12/2023**
Red Hat Certified Specialist in OpenShift Administration — **03/2024**