

# Alex Lin

## Deep Learning, Data Engineer

📍 Mississauga, ON    ✉ alex3621lin@gmail.com



### Summary

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#### Talented Deep Learning Engineer with 7 years of remarkable experience

As an experienced deep learning developer, familiar with languages such as Python, and R. Have perfect solving skills using frameworks such as TensorFlow and PyTorch. Have a history of developing chatbots using natural language processing, ChatGPT, and Generative AI, and there are great examples of using them. Especially proficient in Text-To-Speech, Speech-To-Text and Computer Vision.

### Professional Experience

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#### Data Engineer, *Blue J Legal*

02/2022 – 06/2023

- Designed and Developed 2M pdf data-based Fast Law-Search ChatGPT using Open-AI, Elastic search, and Pine-cone vector database, and after 2 weeks, the number of users became 20,000.
- Implemented PySpark for large-scale data processing and analytics, handling datasets with 2 million records and reducing processing time by 30%.
- Utilized data mining techniques to extract valuable insights from complex datasets, including data extraction, cleaning, transformation, and analysis on datasets containing over 100 million records.
- Collaborated with data scientists to develop and implement natural language processing models using OpenAI's GPT-3, improving text classification accuracy by 3%.

#### NLP Engineer, *Raven.ai*

10/2018 – 12/2021

- Developed an NLP system that automatically classified 7.5K emails as spam or advertising mail using 3+ natural language processing methods.
- Designed Text-classification Model using low CPU, memory, and Classified 1, 250, 000 PDF files for building Search Database.
- Trained 2 Chinese-English machine translation systems that outperformed Google Translation using Transformers and some manually organizing models
- Developed the Chinese-tone learning system using AWS, TTS model, and 4TB No SQL DB.
- Improved the Processing time of the TTS model from 5s to 2s using distributed voice generation and cached memory.
- Build the OMR Program using Unet and customized Sheet-Music Parsing Technology.

#### Full Stack Engineer, *Illumino*

01/2017 – 08/2018

- Developed 8 new responsive Web Design products and 30 new features.
- Analyzed 5 modern JavaScript-based products that use company NLP and data services.
- Experimented, explored, and coded 15 new UI building blocks used to create smart, beautiful, enterprise-level software experiences.
- Translated 30+ UI/UX designs to code, resulting in visual elements of the application

## Languages

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English



Chinese



## Education

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**Dresden International University**  
*Bachelor Degree's in Computer Science*

04/2015 – 03/2017 | Dresden, German

**The Hong Kong Polytechnic University**  
*Advanced Diploma*

09/2012 – 03/2015  
Hong Kong, Hong Kong

## Skills

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### Program Language

- C++
- Python
- Matlab
- Scalar
- R
- HTML/ CSS
- Javascript

### Dev Ops

- Git/Github
- Docker
- Kubernetes
- Jenkins
- AWS

### Web Development

- Mern Stack
- Django
- Flask

### Deep learning

- Tensorflow
- Pytorch
- Keras
- Computer Vision
- Text-To-Speech/Speech-To-Text
- ChatGPT
- Generative AI
- Natural Language Processing
- Object Detection / OCR / OMR