

# Chin-Ho Lin

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## Experience

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### Intelllex

Singapore

Senior Data Scientist

Feb 2023 - Aug 2023

- Revolutionized our platform by integrating OpenAI's GPT model, delivering more precise search results, and generating comprehensive Q&A responses.
- The innovation has earned positive feedback from legal web media and recommendations in our customer's blog post, propelling the platform to an all-time subscription high.

Data Scientist

Jan 2021 - Jan 2023

- Proactively partnered with legal experts and designers throughout sprint planning, feature implementation, and quality assurance, ensuring seamless collaboration and optimal results.
- In charge of the platform search functionality, I designed and implemented algorithms and APIs to ensure efficient information retrieval and search engine optimization (SEO).
- Empowered our business team by delivering the requested functionalities and features, enabling them to secure partnerships with 10+ law and accounting firms and win new customers.

Junior Data Scientist

Jul 2019 - Dec 2020

- Spearheaded a 22.1% performance improvement in the query processing pipeline by rebuilding the entity extraction module.
- Contributed to the development of efficient web crawlers, data pipelines, and SQL database access solutions.

## Education

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### National Taiwan University (NTU)

Taipei, Taiwan

Master of Science in Computer Science and Information Engineering

Sep 2015 - Aug 2017

- GPA: 4.25 / 4.3, Rank: 5th out of 131
- Thesis: Learning to Map Natural Language Statements into Knowledge Base Representations for Knowledge Base Construction (LREC 2018)

## Projects

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### Intelllex: Scott

2023

Python, Retrieval-Augmented Generation (RAG), Large Language Models (LLM), FastAPI, PostgreSQL, AWS

[\[Short Demo Video\]](#) [\[Live\]](#)

- Scott is a Q&A platform designed to answer legal research queries in natural language.
- Build a data pipeline for preprocessing, embedding, and indexing documents.
- Implement the Retrieval-Augmented Generation (RAG) framework for our Q&A platform from scratch.

### Side Project: o~dyssey AI

2023

Python, GPT, DALL-E, Google Lens, Google Maps API, FastAPI, PostgreSQL, Sentry

[\[Short Demo Video\]](#) [\[Live\]](#)

- o~dyssey leverages AI models to recommend travel destinations based on user mood descriptions. These recommendations are visualized and readily accessible through Google Maps integration.
- In charge of the design and implementation of the Backend APIs and Algorithms.

### Intelllex: Finreg.sg

2022

Golang, Python, Elasticsearch, PostgreSQL, RESTful API, Kubernetes, Docker, Cronjob, Search Engine Optimization

[\[Short Demo Video\]](#) [\[Live\]](#)

- Finreg.sg is a search engine for Singapore financial regulation Q&A knowledge base.
- Handle user query understanding, generate search queries for Elasticsearch, and maintain the API server.

## Skills

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- Strong: Python, Natural Language Processing, Elasticsearch, Docker, Linux, Shell Scripting, Regex
- Knowledgeable: Machine Learning, Go, SQL, GitHub Actions, Clojure, Kubernetes
- Languages: Mandarin, English