



Chin-Ho Lin

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Experience

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 boost in our query processing pipeline by completely overhauling and rebuilding the entity extraction module.
- Contributed to the development of efficient crawlers, data pipelines, and SQL database access by collaborating with DevOps engineers.

Education

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

Intelllex: Scott

2023

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

- Scott is a Q&A platform designed to answer legal research queries in natural language. [\[Short Demo Video\]](#) [\[Live\]](#)
- 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

- 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. [\[Short Demo Video\]](#) [\[Live\]](#)
- 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 (SEO)

- Finreg.sg is a search engine for Singapore financial regulation Q&A knowledge base. [\[Short Demo Video\]](#) [\[Live\]](#)
- Handle user query understanding, generate search queries for Elasticsearch, and maintain the API server.

Skills

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