

Chen Xiang 陈想

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Education

The University of Hong Kong

Hong Kong

Master of Science in Computer Science

Sep. 2025 – Present

- Relevant Coursework: Quantum Computing, Data Mining, Algorithmic Trading, Information Security, Big Data Management

Bachelor of Engineering in Computer Science

Sep. 2021 – Jun 2025

- First Class Honours, Dean's Honours List (2021-2022)
- Relevant Coursework: Machine Learning, Computer Vision, Operating Systems, Object-Oriented Programming, Data Science, Software Engineering, Algorithm Design, Databases, Network Communications, Natural Language Processing, Deep Learning

Experience

The University of Hong Kong

Hong Kong

Research Assistant II

Jul 2025 – Present

- Developing Legal AI tools in collaboration with the Law and Technology Centre, HKU, to support teaching and learning initiatives at HKU Law School.
- Processed and structured raw Hong Kong legal documents for context engineering, building a relational semantic database to enable efficient information retrieval in Agentic Retrieval-Augmented Large Language Model legal applications.
- Updating the AI Sentencing Predictor for Drug Trafficking on HKLII based on the latest legal developments.

Student Research Assistant

Jun 2023 – May 2024, Sep 2024 – Jul 2025

- Designed and led multiple hands-on AI workshops at the Innovation Wing, HKU, covering topics such as building custom chatbots using Azure services and developing multi-modal Retrieval-Augmented Generation (RAG) applications with layout detection for document understanding.
- Collaborated on student-led AI projects, including CLIC-Search: a semantic search engine for the Community Legal Information Center, and AI Historian Assistant: a multi-modal history research assistant.

iFLYTEK Co., Ltd.

Shenzhen

Assistant Software Development Engineer

Jun 2024 – Aug 2024

- Contributed to the agile development of AI English-speaking tutor and AI picture book companion LLM solutions within the education product line.
- Developed and maintained application pipelines using Node-RED to support customized feature requirements.
- Automated data engineering workflows for model fine-tuning with Python scripts and optimized prompt tuning processes.

Projects

CLIC-Chat | Next.js, Prisma, MS-SQL, Azure, LLM, RAG

Jul 2025 – Present

- Developed a full-stack AI agent web application for Hong Kong legal document Q&A using Next.js and Prisma.
- Processed and extracted information from raw Hong Kong legal documents (legislation, judgments, and articles) by parsing and cleaning diverse data sources, and built a relational database in MS-SQL.
- Created a hybrid search index (vector + keyword) on Azure AI Search by semantically chunking and embedding legal documents.
- Implemented a Retrieval-Augmented Generation (RAG) pipeline featuring hybrid retrieval, relationship extraction, and reranking to improve document relevance and generate accurate responses using Large Language Models (LLMs).

CU-Campus | React, React Router, Tailwind CSS, Vite, i18n

May 2024 – Oct 2024

- CU Campus is a course review and calendar scheduling platform for CUHK students, seamlessly integrating multiple campus utilities to create a comprehensive one-stop information portal.
- Actively participated in UX design, feature planning, and iterative development cycles.
- Engineered the frontend using React, tri-lingual localization with i18n, and integrated with backend RESTful APIs.

See more at: cxiang.site/project

Technical Skills

Languages: TypeScript, JavaScript, Python, SQL, HTML/CSS

Frameworks: Node.js, Next.js, Flask, FastAPI, Tailwind CSS, Prisma, Vue.js, Chrome Extensions

Databases: MS-SQL, MongoDB, PostgreSQL, MySQL, ChromaDB

Developer Tools: Git, Docker, Linux, Azure, AWS, Postman, OpenAI API, Vercel, Clerk, Node-RED, Dify, n8n

Libraries: React, Pandas, NumPy, Matplotlib, PyTorch, Scikit-learn, LangChain, BeautifulSoup, Selenium, AI SDK

陈想

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教育背景

香港大学

香港

计算机科学理学硕士 (研究生)

2025.09 – 2026.09 (预计)

- GPA: 3.50/4.3; 相关课程: 量子计算、数据挖掘、算法交易、信息安全、大数据管理

计算机科学工学学士 (本科)

2021.09 – 2025.06

- GPA: 3.56/4.3, 一等荣誉学位, 2021-2022 学年院长荣誉名单
- 相关课程: 机器学习、计算机视觉、操作系统、面向对象程序设计、数据科学、软件工程、算法与数据结构、数据库、网络通信、自然语言处理、深度学习

实习经历

香港大学

香港

研究助理 II

2025.07 – 至今

- 针对港大法律与科技中心的需求开发适配教学的法律 AI 工具, 负责工具的研发与落地, 包括对香港原始法律文书做结构化改造, 并搭建关系型语义数据库, 为 Agentic RAG 大语言模型法律应用提供高效信息检索支撑。
- 负责维护并持续优化 HKLII 平台的 AI 量刑预测器, 利用大模型对判决书进行结构化信息提取并更新量刑计算方法, 使系统及时适配香港最新法律条文, 保证预测结果与现行法律实践保持一致。(项目仓库)

学生研究助理

2023.06 – 2024.05, 2024.09 – 2025.07

- 在香港大学 Innovation Wing 设计并主导多场实践型 AI 工作坊, 内容包括基于 Azure AI 服务构建自定义聊天机器人, 以及结合版面检测 (Layout Detection) 的多模态 RAG 文档理解应用开发等。
- 参与并主导多个跨部门学生 AI 项目, 包括 CLIC-Search (社区法治信息中心语义搜索引擎) 与多模态历史研究助手。

科大讯飞

深圳

软件开发助理工程师

2024.06 – 2024.08

- 参与教育产品线 AI 英语口语私教与 AI 绘本陪读等 LLM 应用的敏捷开发, 使用 *Node-RED* 设计并维护应用 workflow; 并通过 LoRA 微调优化模型能力, 以满足产品的定制化功能需求。
- 通过 *Python* 脚本自动化模型微调所需的数据工程流程, 并对提示词调优流程进行优化以提升效率。

项目经历

CLIC-Chat | *Next.js, Prisma, MS-SQL, Azure AI, LLM, RAG*

2025.07 – 至今

- 开发面向香港法律内容问答的全栈 AI Web 应用, 使用 *Next.js* 与 *Prisma* 构建系统架构。
- 解析并清洗香港法律数据源 (包括法规、判决书及法律文章), 提取结构化信息并构建基于 *MS-SQL* 的关系型数据库。
- 通过对非结构化法律文本进行语义分块与向量化, 在 *Azure AI Search* 上构建向量 + 关键词 (BM25) 混合检索索引。
- 实现基于 RAG 的问答系统, 包括查询扩展 (Query Expansion)、混合检索、关系信息提取与结果重排序 (Reranking), 以提升检索相关性并生成更准确的 LLM 回答。

CU-Campus | *React Router, Tailwind CSS, Vite, i18n*

2024.05 – 2024.10

- CU Campus 是面向香港中文大学学生的课程评价与课表排期平台, 整合多项校园服务并提供一站式信息入口。
- 参与产品 UX 设计、功能规划及敏捷迭代开发。
- 基于 *React Router* 实现前端开发, 使用 *i18n* 完成三语本地化, 并与后端 RESTful API 进行数据交互。

更多项目: cxiang.site/project

技术栈

编程语言: TypeScript, JavaScript, Python, SQL, HTML/CSS

框架与平台: Node.js, Next.js, Tanstack, Flask, FastAPI, Tailwind CSS, Prisma, Chrome 插件, 微信小程序

数据库: MS-SQL, MongoDB, PostgreSQL, MySQL, ChromaDB

开发工具: Git, Docker, Linux, Azure, AWS, 阿里云, Postman, Cloudflare, Vercel, Dify, n8n

常用库: React, Pandas, NumPy, Matplotlib, PyTorch, Scikit-learn, LangChain, BeautifulSoup, Selenium, AI SDK