

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-Chats | *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, AI SDK, Clerk, Node-RED, Dify, n8n

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