

# Caleb Kan

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## EDUCATION

<b>Imperial College London</b>	London, United Kingdom
<b>Degree:</b> Bachelor of Engineering – BEng, Computing	Sep. 2023 – Jun. 2026
<b>Grade:</b> First-Class Honours (Predicted)	

## WORK EXPERIENCE

<b>Software Engineer Intern</b>	Aug. 2024 – Present
<b>Midas Advisory</b>   Python	London, United Kingdom
<ul style="list-style-type: none"><li>Architected modular app with open-source LLMs for non-operating expense data processing, integrating web scraping (Playwright, BeautifulSoup4, Selenium) and APIs (FastAPI, Requests) for top 15 US banks; reduced data collection time from hours to minutes and increased accuracy from 85% to 97%.</li><li>Engineered dual-model system: small LLM for 93% accurate data filtering, large LLM (LLama 3.1) for schema-based reporting; implemented vector database (Milvus) with embeddings, reducing data retrieval time from minutes to seconds.</li><li>Designed adaptable architecture enabling seamless integration of new models, enhancing company’s market intelligence and banking sector analysis capabilities, supporting more informed decision-making across departments.</li></ul>	
<b>Research Intern</b>	Jul. 2023 – Jul. 2023
<b>Department of Computer Science, City University of Hong Kong</b>   Python	Kowloon, Hong Kong
<ul style="list-style-type: none"><li>Led development of GDPR compliance checker extension with distinguished professor, utilising BeautifulSoup4, LangChain, and OpenAI’s LLM for automated analysis. Achieved 92.5% accuracy in compliance detection across 400+ websites.</li><li>Designed user-friendly interface displaying website GDPR compliance status, enhancing data privacy awareness. Increased daily active users by 45% and improved user-reported compliance understanding from 3.2 to 4.7 on a 5-point scale.</li><li>Created one-click feature for automated data erasure requests, streamlining GDPR rights exercise. Increased successful data erasure request rate by 150%, processing over 100 requests within the first month of implementation.</li></ul>	

## PROJECTS

<b>ARMv8 Emulator, Assembler, and Visualiser</b>   C	May. 2024 – Jun. 2024
<ul style="list-style-type: none"><li>Engineered high-fidelity ARMv8 emulator and two-pass assembler in C, implementing cycle-accurate fetch-decode-execute pipeline, precise memory management, and robust error handling per ARMv8 specifications.</li><li>Developed multi-threaded SDL2-based GUI for real-time emulation visualisation, featuring drag-and-drop assembly parsing and dynamic rendering of CPU states, registers, and memory maps.</li></ul>	
<b>Chess AI</b>   Kotlin	Dec. 2023 – Jan. 2024
<ul style="list-style-type: none"><li>Engineered Chess AI in Kotlin for pawn race game, implementing game logic, ASCII-based terminal GUI, user interaction system with move validation, and minimax algorithm with alpha-beta pruning for efficient AI decision-making.</li></ul>	
<b>AI Research Agent</b>   Python, NoSQL	Jul. 2023 – Aug. 2023
<ul style="list-style-type: none"><li>Engineered AI web research agent using Python, LangChain, and OpenAI’s LLM; integrated BeautifulSoup4 for scraping and generating cited summaries, X API for automated content posting, and MongoDB Atlas for secure geolocation tracking.</li><li>Developed data visualisation pipeline for global AI agent usage, leveraging geospatial analytics to map user engagement and derive actionable insights.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Native: English · Mandarin · Cantonese  
**Programming Languages:** C · Haskell · HTML/CSS · Java · Kotlin · Python · SQL  
**Frameworks:** Bootstrap · FastAPI · Firebase · Flask · LangChain · MongoDB · MySQL · PostgreSQL · SQLite  
**Libraries:** Matplotlib · Numpy · OpenCV · Pandas · TensorFlow  
**Developer Tools:** Android Studio · Atom · BitBucket · CLion · Git · GitHub · GitLab · GNU Debugger · Google Colab · Hugging Face · IntelliJ · ~~LaTeX~~ · Ollama · PyCharm · Unix · Valgrind · Visual Studio · VS Code · Xcode