




LO YIU SUM

FINAL YEAR COMPUTER SCIENCE STUDENT

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SUMMARY

An active learner who is motivated and passionate about Computer Science. Adaptable and resilient in new environments. Driven by progress and improvement. Enthusiastic about exploring emerging technologies and frameworks. Excited to leverage my expertise as a System / Platform engineer to design and scale trading systems or build automation tools that power financial operations and deliver measurable impact.

TECHNICAL SKILLS

Python / Java / C++ / Git workflow	DMBS (PostgreSQL, MongoDB etc.)	MS (Copilot Studio, PowerApps..)
LLM & RAG (Autogen, LangGraph)	Web Scraping (Playwright, Bs4 etc.)	DevOps (Jenkins, RabbitMQ etc.)
Backend (Django, SpringBoot)	Design Patterns (Microservices)	Product Development Cycle

PROFESSIONAL EXPERIENCE

IT Summer Intern, Information Service Department (ISD), OOCL

Jun 2025 - Aug 2025

- MySQL to MongoDB database migration & Reduce tech debts by reviewing legacy codes.
- Designed, developed and documented a Market Intelligence LLM prototype & UI with AutoGen (w/ Gradio) from scratch that suggest actionable according to market movements.
- Designed and implemented Agentic AI system on software license management that streamlines license request and assignment as well as license tracking and notification system.

Student Work Placement Intern - PayMe Product Team, HSBC

Jul 2024 - Dec 2024

- Conduct competitive analysis on HK e-payment landscape.
- Developed an Excel-based tool to automatically categorize verbatims using keyword frequency sorting, achieving 85% accuracy and saving one month of manual work every six months.
- Analyse user behaviors on different user journeys by clickstream and backend statistics.
- Prepare user stories, groom tech teams and formulate product acceptance criteria .
- Deliver weekly reports to PayMe teams with latest trends, comparing performances and suggest insights with effective data representation and confident delivery.
- Supported Scameter and App-to-app feature releases, assist UAT and PROD testing upon launch.

EDUCATION

Bachelor of Engineering majoring in Computer Science

Sep 2022 - Jun 2026

The University of Hong Kong

- Major in Computer Science, focus on Data Analytics | Minor in Finance
- HKU Squash University Team | Vice-Chairperson in HKU Squash Racket Club, session 2024-2025
- Honorary Treasurer in Astronomy Club, HKU session 2023-2024
- Lead For Life Character Leadership Certificate Programme (4 Years)

ACHIEVEMENTS

HK techathon+ 2024 top 8 finalists

Jan 2024

VitalRing - Female-friendly ring shape model

- Proposed Health gadget to monitor menstruation cycle and emotions integrated with app system
- Transform health statistics to periodic trends and suggest user personal advice
- Pitching with business proposal with market competitors' analysis

Cathay hackathon 2023 Top 20 finalists

Nov 2023

Customer credit system & AI Insurance business model

- Ease negative behaviors of passengers by introducing credit system model
- Suggest AI use in personalizing insurance plan to make claims with highest successful rate according to flights, accommodation, activity risk levels and past travels records
- Prototyped app UI with Flutter and presented pitch deck in 24 hours

SIDE PROJECTS

FYP - RAG Teach and Study Assistant (Early stage)

Web-based application integrated with AI services to enhance teaching & learning experience.

- Dashboard for the teaching teams to observe student engagements, material usage etc.
- GenAI toolkit that generate exercises and course materials including graphs & formulas
- Specialized chatbots to answer enquiries based on forums, materials and past years knowledge
- Streamlined workflow in accepting general document types with OCR, markdown transformation, data chunking, agentic system setup etc.

Astronomy Club, HKU official website (Testing) [<https://astro.studsoc.hku.hk/test/>]

Website owner

- Build with Hugo framework, customized with society's needs
- Markdown-based blogs & articles, aligned with defined yaml configurations that linked to HTML and CSS statis files
- Decoupled file templates i.e. Sidebar, Footer, Widget elements for easy scaling
- Github codebase for collaboration and Github action for constructing static website generator

Web Scrapping mini programs

Gadgets & Mini tools to make life easier

- Portal executable across Windows and MacOs from Github workflow artifacts
- Auto login, course files scanning and downloading with structure defined in Moodle
- Tree-based historical tracking and comparison feature by run dates
- Local storage with JSON config and change logs folder

ADDITIONAL INFORMATION

- **Languages:** Cantonese (Native), Mandarin (Fluent), English (IELTS: 7.0)
- **Certifications:** IBM Data Science
- **Scholarships:** HKSAR Talent Development Scholarship 2024-25