Felix Lau Pangestu

+852 94381766 | cd.felixj@gmail.com | Taikoo, Hong Kong
cdfelixj.netlify.app | github.com/cdfelixj | linkedin.com/in/jfelixpangestu/

EDUCATION

Hong Kong Baptist University   **Sep 2022 - Jun 2026**

Bachelor of Science (Hons) in Business Computing & Data Analytics | First Class Honors   **Cumulative GPA: 3.6/4.0**

- Student Ambassador, Peer Mentor, CS Tutor; First-Gen University Student Scholarship, Outstanding Student Scholarship, HKROA

Nanyang Technological University | Fall Semester Exchange (Aug 2024 – Dec 2024), Fung Scholarship

RELEVANT EXPERIENCE

Digital & IT Intern | **Cathay Pacific**   **Jul 2025 – Aug 2025**

- Delivered a full-stack MVP (React/TypeScript, Python Flask) with automated reconciliation and validation; enabled accurate, scalable cross-border calculations and streamlined financial reporting, reducing errors and manual work.
- Assisted API standardization across teams and high-value external partners: facilitated design discussions, captured decisions in sequence/flow diagrams, and clarified endpoints, payloads, and error responses adopted by several services.
- Supported integrations with a top-tier U.S. bank and a global technology partner, clarifying requirements, producing documentation, and executing end-to-end testing for rapid deployments across both projects.
- Engineered automated scheduling platform by implementing rostering algorithm, improving multi-team on-call assignment efficiency and minimizing scheduling conflicts.
- Coordinated hackathon masterclasses for 600+ participants by managing relationships between internal business units and external partners, overseeing logistics coordination and maintaining project documentation.

Software Engineer Intern | **Wizpresso**   **Jun 2024 - Aug 2024**

- Refactored core services from SvelteKit/Prisma to ASP.NET Core Web API, reducing API latency by 22% (1.6s→1.24s) through async I/O, DbContext tuning, and in-memory caching; delivered improvements to 1,500+ daily users.
- Implemented OAuth 2.0/OIDC with JWT SSO for 15k+ users; enforced secure standards (PKCE, key rotation), passing external security audits with no critical findings.
- Led zero-downtime migration from SQL Server to Amazon RDS using AWS DMS with CDC; ensured <0.05% data variance and automated reconciliation before switchover.
- Built and integrated new user management features across the portal stack, enhancing account administration for users.

Research Assistant | **Hong Kong Baptist University**   **Jan 2024 – Aug 2024**

- Adapted a 7B LLM for financial sentiment and NER using PEFT–LoRA (4-bit QLoRA); achieved higher F1 scores than BERT with >95% fewer trainable parameters and 60–70% lower compute use.
- Integrated the optimized model into a LangChain pipeline for large-scale financial inference.

Software Engineer Intern | **Admazes**   **Dec 2023 - Jan 2024**

- Built a RAG pipeline for a local LLM using LangChain and HuggingFace embeddings; improved QA accuracy by 25% on an internal test set and reduced hallucinations by ~60% via better retrieval and citation checks.
- Enhanced BigQuery pipeline for RAG; boosted LLM retrieval and accuracy by 25% through SQL optimization on 50+ queries.

SELECTED PROJECTS

PowerLift, a powerlifting e-commerce website | MongoDB, Express, React, Node, Stripe

- Developed a full-stack E-Commerce platform using the MERN stack and integrated Stripe for secure payment processing
- Implemented an admin dashboard with features for adding, editing, and managing products and orders

MealMatch, web platform designed to connect food bank donors with beneficiaries in need | React, Firebase, Leaflet.js

- Engineered a real-time dashboard to monitor food donations and distributions utilizing Firestore.
- Computed matching logic with the Hungarian Algorithm, which efficiently optimizes matching based on needs.

EXTRACURRICULARS

Founder | Read the Vision   **Nov 2024 - Present**

- Building a computer vision solution to transcribe hand signals and improve communication between deaf/mute communities and the public; admitted to the HKSTP Ideation Programme (up to HKD 100,000 funding; initial HKD 10,000 secured).

Student Ambassador | Amazon Web Services   **Jan 2025 - Present**

- Liaison between AWS and the student community, organizing events and promoting AWS resources to increase engagement.
- Supported the successful execution of AWS Summit 2025 by assisting with event logistics and partner coordination.

Participation & Awards

3rd Runner-up, HK Techathon+ 2025 | Top 8, Code to Give by Morgan Stanley@ SG 2024 | 2nd Runner-up, USFHK Rugby 2024

TECHNICAL SKILLS

Languages & Frameworks: Java, Python, C#, JavaScript, TypeScript, SQL, HTML, CSS, React, Svelte, Next.js, ASP.NET Core, Spring Boot, Express.js, Flask, Material UI, Tailwind CSS, Streamlit
Data & Analytics: MySQL, MongoDB, BigQuery, Firebase, AWS RDS, Pandas, Matplotlib, Seaborn, LangChain, LoRA, Power BI, Tableau
Cloud & Development Tools: AWS (RDS, DMS, S3), GCP (BigQuery), Git, GitHub, Postman, VS Code, Unity, Microsoft 365

INTERESTS

Powerlifting (1058lbs Total), Rugby (Varsity Team), Poker, R&B Music, *Remembrance of Earth's Past* by Liu Cixin