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#### **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 Representative of the Senate (Science Faculty), Student Ambassador, Cultural Ambassador, Peer Mentor, Course Tutor
- Mr. and Mrs. Lee Siu Lun First-Gen University Student Scholarship, Outstanding Student Scholarship, HK Reaching Out Award

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

## **RELEVANT EXPERIENCE**

## Digital & IT Intern | Cathay Pacific

Jul 2025 - Aug 2025

- Built full-stack cargo compliance MVP using React/Flask, demonstrating automation potential for 40K+ monthly packets, identifying HKD 10M+ risk mitigation opportunity
- Developed data processing prototype with optimized database performance, achieving 10-20x speed improvements in testing, showcasing potential for 20K+ annual hour savings
- Assisted with API standardization projects across 6 cross-functional teams and partners including a global investment bank, leading ride-sharing company, and multinational oil corporation.
- Developed sequence/flow diagrams and endpoint specifications adopted by 6 microservices, reducing integration complexity.
- Implemented automated rostering algorithm for multi-team on-call scheduling; decreased scheduling conflicts by 60% and reduced manual assignment overhead by 80% across 3 engineering teams.
- Managed hackathon logistics for 600+ participants, coordinating stakeholders 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.

#### 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 fine-tuned LLM into LangChain pipeline for large-scale analysis of 20,000+ earnings call transcripts.

# 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.

# **SELECTED PROJECTS**

Real-Time Fraud Detection System | Python (Flask/scikit-learn/pandas), Apache Kafka/Zookeeper, Redis, PostgreSQL, Docker | GitHub

- Architected real-time fraud detection system achieving ~90% prediction accuracy on imbalanced datasets by implementing ensemble ML models (Isolation Forest + Logistic Regression) with automated anomaly detection capabilities
- Built distributed streaming architecture supporting 1,000-4,000 requests/second throughput for scalable transaction analysis

# E-Commerce Website | MongoDB, Express, React, Node, Stripe | GitHub

- Architected full-stack MERN ecommerce with Stripe integration, JWT authentication, and live deployment
- Developed React frontend with real-time cart persistence, secure checkout flow, and full-featured admin order management

# **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

lan 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: PostgreSQL, MySQL, MongoDB, BigQuery, Firebase, AWS RDS, Pandas, Matplotlib, Seaborn, LangChain, Power BI, Tableau Cloud & Development Tools: AWS (RDS, DMS, S3), GCP (BigQuery), Postman, Docker, Apache Kafka, Redis, Unity, Jira

# **INTERESTS**