

# Yash Kataria

[yakataria@connect.ust.hk](mailto:yakataria@connect.ust.hk) | + (852) 59354798 | HK PR | [LinkedIn](#) | [Github](#) | [Portfolio](#)

## EDUCATION

### Bachelor of Engineering, Hong Kong University of Science and Technology (HKUST)

2023 - 2028

- BEng in **Computer Science** with a Minor in **Actuarial Mathematics**
- HKUST Beyond Academic Admissions Scholarship | Coverage: 2 years
- Relevant Coursework: AI, ML, System Optimization, DSA, SWE, DL

## TECHNICAL SKILLS

Programming Languages: C++, Python, Java, C, HTML, JS, CSS, Shell, React.js, Node, TypeScript, Linux, Unix

Developer Tools: AWS, Azure, Xcode, VS, IntelliJ, GitHub, Android Studio, Kubernetes

DBMS: SQL, MongoDB MQL, DAX, Power BI, Oracle.

Native Languages: English, Mandarin, Hindi

## PROFESSIONAL EXPERIENCE

### Sun Life Financial

July 2026 – August 2026

#### Software Engineer

Hong Kong

- Automated **12+** recurring financial-operation workflows across **4** enterprise systems, increasing operational visibility by **60%**.
- Built AI-enabled customer document scoring and retention tool, automating manual review time for over **10,000** documents per month.
- Delivered **7** UI workflow features and backend development for the One-World-One-App Initiative for clients' KYC and interactions.

### BNP Paribas

July 2025 – January 2026

#### Software Engineer - Automated Market Making Trainee – Global Markets

Hong Kong

- Developed Python 3.10, C++ **17** scripts to automate data capture, processing, and regeneration; decreased pipelining latency for Options and Futures Trades by a **multi-agent GUI system** by eliminating manpower.
- Developed an internal **MCP-enabled RAG-based** Chatbot wrapper aggregating documents, internal databases, key web infrastructures and communications, along with metadata tagging, embeddings, and semantic retrieval.
- Automated and optimized trading platforms via mean reversion, trade system improvements via **HMM**, and blameless post-mortems.
- Develop/maintain automation tools, alpha models for MMS, backtesting environments, and risk controls for algorithm trading strategies.

### QI group; QNet

June 2024 – August 2024

#### Data Analyst and IT Intern

Hong Kong

- Sorted company data into insightful visual presentations through a classification algorithm using Python data-frames and SQL Queries/DAX on Power BI to spearhead financial decisions at board meetings.
- Built a neural network with **97.58% accuracy** as part of a collaborative team to identify business strategies and customer habit analysis saving redundant manpower up to **\$50,000 in salary costs**. Refined through back propagation.

### The Hong Kong University (HKU)

June 2024 – August 2024

#### Research Fellowship Internship

Hong Kong

- Developed python algorithm saving **months of work** and **\$700 USD monthly** to selectively identify, classify and mass download files from Sec Edgar gov page, enabled easy access to all files of N-PORT data type for Professor's research.
- Used LLM's in Neo4j aura database software to extract data from files manipulated to create knowledge graphs using Cypher and Python used to drive business insights from data.
- Increasing efficiency by up to **2 hours daily** through Restful API companion tools from python to collaborate Gmail and WhatsApp.

### Junior Achievement Enterprise

July 2022 – August 2023

#### Director of Technology and Finance

Hong Kong

- Co-founded a successful startup, scaled the business to **+400 customers**, increased **revenue by 200% in 2 years**.

## PROJECT AND RESEARCH EXPERIENCE

### Founder & CEO | Lucida (Assistive Tech) – (2024-present)

Affordable AI-powered Navigation App ecosystem and hardware for the visually impaired

Python, Flask, TensorFlow, OpenCV, React, GPS

- Designed **\$1.2M projected** multi-modal smart vest system combining vibration alerts, real-time multilingual audio descriptions (<50ms latency), and computer vision object detection (**98.2% accuracy across 200+ obstacle classes**) hardware solution at **<10%** cost than alternatives (\$300 vs market average \$5,300). Roughly **40% faster** route navigation vs white cane baseline (HKPU study).
- Secured **\$100K HKSTP Ideation Grant** and partnerships with 7 NGOs including Blind Union Asia, enabling beta-testing with 25+ users

### Data Formulator – AI enhanced “Power BI” Platform | Maxims Group Contracted Project (Present)

Node.JS, Python, Typescript, JS, HTML

- Developed a Power BI alternative using Microsoft's open-source Data Formulator, integrating AI-generated tables and query-based visualizations, reducing **HKD 900K** in subscription costs.
- Built an AI chatbot onto Data Formulator with end-to-end data connections, enhancing data analysis by **50%**.
- Created a marketing campaign chatbot to answer employee queries on marketing & rewards schemes, leveraging word embedding.

### StorageSync – Cross-Platform Inventory Manager (Present)

TypeScript, React, Supabase (PostgreSQL + Realtime), Tailwind CSS, Capacitor, Stripe, (iOS & Android app)

- Shipped a full-stack household inventory app with recursive location trees, QR/barcode batch-scanning, real-time sync, and a knowledge-graph visualisation; deployed natively to iOS/Android Play Store/App Store and web; Vercel

## Additional Experience and Awards

- Morgan Stanley – Code to Give | Second Runner up.
- HKSTP Techathon+2025 (Merit) | Conditional for Ideation Programme cum Grant.
- Cathay Pacific Hackathon | Semi-Finalist 2024.

## Leadership Experience

- HKUST Engineering Student Ambassador
- South Asian Students Society President (25-27)
- International Students Society VP (24-26)