Michael Blanchette

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Education

The Hong Kong University of Science and Technology   **Sep 2020 – Jun 2025 (Expected)**
BEng Computer Science & BBA Marketing   *Dual Degree Program in Technology & Management (DDP)*

Work Experience

Deloitte   **Jun 2023 – Aug 2023**
Consulting Intern - Digital   *Hong Kong, China*

- Optimized ServiceNow workflows to develop management and strategic portfolio dashboards for four prominent companies. The solutions were specifically tailored to be used by HR personnel, employees, and customers.
- Supervised the quality of Chinese-English translations for ServiceNow portals by translating an average of 200 cells of notifications per day, ensuring high-quality cross-cultural organizational communications.
- Compiled meeting minutes involving at least four parties, summarizing and translating key action points and business agreements between five stakeholders engaged in our client's project.

Scout Association of Hong Kong (SAHK)   **Sep 2022 – Jun 2023**
Instructor   *Hong Kong, China*

- Attained the Venture Scout Award (VSA) and Chief Scout Award across at least 10 years of scouting.
- Leading and coordinating diverse scouting activities for groups of 20 to 40 youths every week.
- Mentored and guided over three generations of scout troops, optimizing and facilitating effective leadership councils.
- Cultivated our youths' interest in their scouting journey and maintained an 80% retention rate of scouts per generation.

McDonald's Hong Kong   **Jul 2022 - Jun 2023**
Youth Consultant   *Hong Kong, China*

- Established the first committee in McDonald's HK operated entirely by passionate Hong Kong youth. | Article
- Partnered with local Hong Kong artists to organize the "Coach McNugget Art World" Exhibition, showcasing over 20 meticulously curated nugget-themed artworks for McDonald's HK's 40 years of McNuggets. | Article
- Supported the CEO Randy Lai and other board members as a key decision-maker and consultant for McDonald's HK youth-related business decisions.

Project Experience

AI Algorithmic Trading Bot   **Dec 2023 – Present**
Developer   *Hong Kong, China*

- Studying how to leverage Alpaca API and Lumibot library for algorithmic trading through YouTube videos and documentation.
- Backtesting paper trading strategies based on sentiment analysis of past and current news headlines from Alpaca using PyTorch and AI models from Hugging Face, gaining a deeper understanding of AI's role in today's financial landscape.

HKUST Corporate Consulting Project Sponsored by JPMorgan Chase & Co   **Sep 2023 – Jan 2024**
ETF Trading Student Consultant   *Hong Kong, China*

- Designed a Global ETF Sales Dashboard to aggregate trends from news and social media, progressing JP Morgan Asset Management's competitive edge in the ETF trading landscape. Achieved 1st place in the competition. | Details
- Developed an ETF filtering tool taking advantage of Meta's Llama 2 LLM and financial news from marketaux API to accelerate ETF identification for JPM salespeople through semantic search, reducing the time needed to pinpoint promising ETFs for their clients by 70%.
- Presented a proof of concept of a customer profiling tool by combining CRM data from Salesforce, financial news, client meeting logs, and Hugging Face APIs to dynamically generate 2 to 5 ETF recommendations per month.

HKUST Corporate Prototyping Project   **Jun 2023 – Aug 2023**
Fixed Income Student Analyst / Full-stack Developer   *Hong Kong, China*

- Applied machine learning algorithms to data sourced from Eikon Terminal and Yahoo Finance, leading a team to develop a predictive dashboard for sponsors from corporate and fixed-income banking. The dashboard operates on Next.js and Google Cloud Platform to accurately predict changes in bond pricing, achieving 2nd place in the competition. | Details
- Identified and utilized 62 features used to predict yearly credit rating migrations with 79.71% back-tested accuracy.
- Developed a yearly credit spread prediction model with an average error of 76.14 basis points.

Project Melo | Website   **Jan 2022 – July 2022**
Fellow   *Hong Kong, China*

- Engaged with prominent Hong Kong CEOs and business leaders to participate in social empowerment initiatives.
- Selected as one of 20 fellows from a competitive pool of 200+ applicants and collaborated in a team of 4 with the CEOs of McDonald's HK and Bowtie.
- Delivered a TED-style talk at HKUST to an audience of over 500 CEOs from around the world to advocate our initiatives. | Article

IB Questionbank Scraper   **Oct 2020 – May 2022**

Private Tutor / Software Developer   *Hong Kong, China*

- Developed a Python-based web scraping tool in 1 week using Selenium to automate question selection from the IB Questionbank to be used for my private tutoring every week.
- Significantly decreased question search time from 1-2 hours per week to just 5 minutes.

Expertise

Languages: English (Native), Thai (Fluent), Mandarin (Studying), Cantonese (Studying), Spanish (Studying)

Technical: Python, Java, C, C#, C++, HTML, CSS, JavaScript, R, React, Next.js, Git, Google Cloud, Alpaca

Leadership: 29th SJD Scouts Instructor/Senior Patrol Leader, 30th VSU Vice-Chairman, Discovery College Student Council Chair, Discovery College Student Ambassador

Awards/Scholarships: HKUST Full Tuition Scholarship + Allowance (one-off), ESF Chairman's Award for Excellence, Discovery College Academic Scholarship, Venture Scout Award, Chief Scout Award, Taekwondo Dan 2 Black Belt

Hobbies: HKUST Volleyball Society, Scouts, Guitar, Gym, Hiking, Camping, Private Tutoring