

DAVID YANG

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EDUCATION

Bachelor of Commerce, Bachelor of Computing, Queen's University, Kingston, ON **Expected 2026**

- Computing Dual Degree, Queen's Excellence Scholarship, D. I. McLeod Dean's List, 3.68 GPA
- Data Science (A+), Discrete Math I (A+), Intro to Statistics (A), Intermediate Python (A), Finance II (A)
- CFA Data Science for Investment Professionals, Akuna Capital Options 101, Bloomberg Market Concepts

PROFESSIONAL EXPERIENCE

Funding and Liquidity Management Winter Analyst, CIBC, Toronto, ON **Winter 2024**

- Created 5 monthly recurring reports on KPIs measuring bank health and liquidity status: Liquidity Horizon, Net Cumulative Cash Flow, Net Stable Funding Ratio, Top 15 Depositors, and an OFSI Liquidity Dashboard
- Coded VBA automation solutions to streamline the above financial reporting by automating steps including file extraction / sourcing, KPI generation, data transfer and validation, and email automation – 3 hours saved per report

Venture Capital Analyst, White Star Capital, Toronto, ON **Fall 2023**

- Researched Canadian data infrastructure landscape contributing to a 65-page sector report – identified subsectors, tailwinds, risks, and potential series A and B investments
- Developed an 11-page primer on quantum computing cybersecurity on topics including modern encryption methods and use-cases, impact on major industries, and market potential - leveraged by leadership to evaluate fund investment mandate
- Created a sourcing tool to identify prospective limited partners for the fundraise of White Star's Fund IV by using approximate string matching to match employee LinkedIn connections with the top 3000 limited partners based on capital deployment amount – generated 50 leads that resulted in a high strike rate with strategic limited partners

Data Science Associate, Apex Advisory, Toronto, ON **Summer 2023**

- Used Python (Pandas, Matplotlib, NumPy) to generate heatmap visualizations by zip code for U.S. credit unions to track branch growth and deposit movement in the aftermath of the Silicon Valley Bank collapse
- Created a K-means clustering analysis of all U.S. credit unions and banks using the Scikit-Learn Python Library, leveraging asset base, insured/uninsured deposits, loan type, and non-performing loans to segment the financial institutions market
- Applied Principle Component Analysis for dimensionality reduction and Elbow Method to determine the optimal number of clusters - resulted in the company re-adapting financial product offerings and evaluating their internal financial health KPIs

Revenue Growth Management Intern, Danone, Toronto, ON **Fall 2022**

- Analyzed newly proposed display promotions and upcoming price hike on sales volumes based on price elasticity of major product lines – resulted in a 5% price decrease of display promotion pricings on 8-pack yogurt
- Utilized SQL to create and maintain update scripts on the product database, ensuring real-time data availability and data accuracy for various departments
- Designed and implemented complex joins and queries to extract and analyze sales data, which led to the identification of key market trends and informed strategic business decisions

Projects

Financial Backtesting Engine with Benchmark Comparison (Ongoing)

- Developed a backtesting engine using Python, Flask, Plotly, yFinance, Pandas, and HTML to test trading strategies.
- Integrated live and historical data using yFinance and visualized portfolio vs. benchmark performance with Plotly.
- Built an interactive interface with Flask for user input such trading period, stock tickers, and benchmark funds

ADDITIONAL INFORMATION

- **Technology:** Python (Scikit-Learn, TensorFlow, Pandas, SpaCy, Matplotlib, Selenium, Plotly, Flask, yFinance), VBA, HTML, CSS, JavaScript, SQL, R, Capital IQ, Microsoft Suite
- **Competitions:** TD M&A Case Competition (3rd Place), QAAAF Stock Pitch (Finalist), National Case Competition (Finalist)
- **Other Experiences:** Head of Quant Research - TBL Capital (2022 - Present), Portfolio Manager - Pangea Investments (2022)
- **Interests:** History, Hockey, Boulderling, Trading, Emerging Markets, Clash of Clans (Ranked #175 Nationally in 2024)
- **Certificates:** Associate Diploma (ARCT) in Piano, Diplôme d'études en langue français (DELF) B2