

# Preston Vander Vos

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## EDUCATION

### UNIVERSITY COLLEGE LONDON

MSc Candidate in Information Security

Coursework in privacy enhancing technologies, cryptography, decentralized finance, computer security

Dissertation with Mysten Labs, Encode London 2024 Hackathon winner, Head of Education for Blockchain Labs Society

London, UK

Sep. 2024 – Sep. 2025

### CARNEGIE MELLON UNIVERSITY

B.S. in Business Administration, Minor in Computer Science; GPA: 3.91/4.00

Coursework in blockchain, AI, ML (graduate-level), theoretical computer science, algorithms, systems

Varsity Swimming (UAA All-Academic all years), Putnam Competition, Cofounder of Schatz Club, Treasurer of Cru

Pittsburgh, PA

Aug. 2016 – May 2020

## EXPERIENCE

### CHAINALYSIS

*Associate Data Scientist*

New York, NY

Feb. 2024 – Aug. 2024

- Analyze on- and off-chain data and produce reports investigating cases for government agencies to detect illicit activity, supply evidence to indict and prosecute criminals, and examine the economic impact of regulatory activities on the crypto ecosystem.
- Build user-friendly tools automating data analysis for lead generation, fraud prediction, and geolocation details by developing interactive jupyter notebooks, metabase dashboards, and documentation to enable investigators to self-service data requests.
- Re-engineered approval phishing network mapping capability to predict victims proactively, facilitated a public-private workshop on findings for exchanges and federal agencies, and presented at the Trace DC conference with >500 attendees.

### PARADIGM

*Associate Product Manager*

Singapore

Jan. 2023 – May 2023

- Managed backlog for 4 engineering teams, synthesized quantitative analyses into product requirements, advocated for features in company roadmap and communicated updates, tested outputs, aligned stakeholders, and led cross-functional security efforts.
- Redesigned client onboarding process to reduce manual reviews by 50%, conducted comprehensive assessment to identify and mitigate compliance risks, and collaborated with Sales and Legal to communicate with at-risk clients and enforce regulations.
- Fine-tuned machine learning model by improving feature engineering and input data quality, enhancing the visibility and accuracy of an underperforming product, resulting in increased trading volumes and a 10% diversification of revenue.

### BitMEX

*Senior Data Analyst*

Vancouver, BC

Jan. 2022 – Dec. 2022

- Developed a custom anti-money laundering monitoring system in Python and SQL to flag suspicious transactions and trades based on layering typologies, leading to collaboration with an intergovernmental organization and recovery of victim funds.
- Architected DBT models in Redshift to synthesize raw data sources into easy-to-use tables, monitored ETL performance and data integrity through automated tests, and constructed REST API pipelines for seamless data exchange with external vendors.
- Built Tableau dashboards to visualize key metrics for business operations and serviced ad hoc data requests across departments.

### RBC CAPITAL MARKETS

*Municipal Derivatives Trading Analyst*

New York, NY

Aug. 2020 – Dec. 2021

- Structured, traded, and booked deals, hedged risk on a continuous basis and from new deals, performed forward-looking scenario analyses, reconciled daily PnL, and optimized the VBA underpinning the desk's book-running spreadsheet.
- Backtested the performance of metrics used to adjust bid levels from an automated municipal bond trading system, leading to improved bid accuracy and a significant increase in algorithmic bond purchases and the trader's book size.
- Created adaptable Excel models for high yield municipal bond traders to evaluate the intricate cash flow structures of tobacco and Puerto Rico bonds, allowing for assessment of future IRR and potential default scenarios under various assumptions.

### RBC CAPITAL MARKETS

*Quantitative Trading & Research Summer Analyst*

New York, NY

Jun. 2019 – Aug. 2019

- Researched and presented a market microstructure analysis on equity trading algorithms using KDB, assessing the effectiveness of static minimum order quantities and recommending dynamic values based on historical trade data.

## SKILLS & INTERESTS

**Skills:** Python, Rust, SQL, DBT, Databricks, Metabase, Airflow, Tableau, Excel | **Licenses:** FINRA Series 7, 57, 52, 63

**Interests:** Board & card games, swimming, rock climbing, hiking, traveling, brewing kombucha, baking bread