

EDUCATION AND QUALIFICATIONS

2019 – 2021	Lehigh University Pennsylvania, USA	Master of Science (Fulbright Scholar) Financial Engineering
<u>Additional projects:</u>		
June-2020 – present	Reinforcement learning Project Analyst	Bethlehem, USA
	• Introduction to reinforcement learning based trading strategies and portfolio management.	
June-2020 – present	Ethereum Classic Labs Project Analyst	California, USA
	• Understanding of Ethereum smart contracts solutions • Understanding of the underlying data structure schematic	
June – 2020 – present	Inca.Digital Project Analyst	New York, USA
	• Accessing and analyzing blockchain data from Splunk Nakamoto terminal • The role provided exposure to Natural language processing and various visualization tools and reporting for portfolio management and overall financial market analysis.	
Oct-19 – February-20	Allentown Economic Development Corporation Project Analyst	Allentown, USA
	• Provided the AEDC with a database of hedge funds and private equity funds seeking opportunities to invest in defined opportunity zones within the Pennsylvania area. The task entailed data scraping from the websites as well as collating the information in a presentable manner for the client to make use of.	
Aug-18 - Dec-18	University of Cape Town Graduate School of Business Cape Town, South Africa	Treasury Certificate Client Centricity
	• Professional development training provided to treasury traders by Standard Bank group for its global markets traders. International exposure on client centricity and business development provided by previous executives from Toyota, and professional speakers.	
July -16 - Aug-16	UNISA Graduate School of Business Pretoria, South Africa	Mastercard Foundation Certificate Young African Leaders Initiative
	• Business and entrepreneurship training. Taught to effectively present. Equipped with tools for Business strategy and leadership management skills.	
2015 – 2015	University of the Witwatersrand Johannesburg, South Africa	Bachelor of Science Honors Advanced Mathematics of Finance
<u>Additional projects and papers:</u>		
Completed projects in market microstructure, portfolio management, option pricing, counterparty credit risk modeling, numerical methods in finance, risk measurement, application of stochastic processes and computational differential equations.		
2011 – 2014	University of the Witwatersrand Johannesburg, South Africa	Bachelor of Science Mathematical Science
2008 – 2010	Machabeng International College Maseru, Lesotho	International Baccalaureate Diploma Physics, Mathematics and Chemistry

WORK EXPERIENCE

June 21 - Present	Financial Industry Regulatory Authority Associate Principal Research Analyst - Full time position	Washington DC, USA
	• The role is within the Office of the Chief Economist's office, where I report directly to the deputy director. • The role entails market research and analysis pertaining to operations of all broker dealers and exchanges which are members of FINRA, portfolio analysis and research.	
May-21 - Present	Practice Makes Perfect Operations Internship	New York and California, USA
	• Operations internship as part of the Lehigh at NASDAQ fellowship. • The role entails product improvement of plato operating software to optimize client experience. Monitoring and evaluation and reporting. • PMP is a social impact organization which provides support for educational excellence for students.	
Aug-19 – Aug-20	Independent Consulting	New York, USA
	• The role entailed independent business development aimed at bridging the technological gap in offerings within the USA and my home country Lesotho within the Banking Treasury and overall technology operations areas. Provided Portfolio management solutions and interest rate modelling and reporting solutions.	

2016 – 2019

Standard Bank Group Lesotho

Maseru, Lesotho

Treasury Dealer and Structured Products Manager

- Managing and trading risk, maximization of profit for shareholders, up to date knowledge and structuring of treasury and foreign exchange products, responsible for bank liquidity management execution and overall treasury sales. Understanding of financial products markets risk valuation processes as well as overall financial market and economic key indicators.
- Client relationship management; Advised government Ministry of Finance, and Ministry of Development planning at the National Manpower Secretariat Office in optimization of fund allocations.
- Invitee economic advisor at the Asset and Liability committee meetings chaired by the Chief Executive.

Extracurricular activities:

Aug-19 – Dec-20

Lehigh University United Nations Partnership

Pennsylvania, USA

United Nations Youth Representative

- Meet with international stakeholders, Ambassadors, and organizations on behalf of Lehigh University. The role provided an opportunity for an in-depth understanding of bilateral, multilateral economic, political and development issues, as well as the various structures and procedures in place to aid the resolutions of these.

Aug-19 – Mar-21

Lehigh University International Labor Organization New York, USA

Simulation Coordinator

- Working directly with International Labor organization senior management and Directors in planning and organizing the first model ILO simulation at Lehigh University.
- I coordinated a group of over 60 participants in simulating the international Labour conference. Concluding with a conclusions document which was sent to the Director of the Bretton Woods and Multilateral Organizations.

Coding/Software Packages:

Matlab; Python Jupyter Notebook; R; VBA; Sales Force; Splunk; Calypso; microsoft office