

LIZA ABRAHAM

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Education

University of Toronto

09/2021 – 05/2025

Bachelor of Applied Science and Engineering (B.A.Sc) in Computer Engineering

Toronto, ON

- **Major:** Software Engineering and Control Systems
- **Minors:** Artificial Intelligence, Engineering Business

Work Experience

Balyasny Asset Management

05/2024 – 08/2024

Summer Associate, Software Engineer

New York, NY

- Built a data reconciliation dashboard with **React** and **TypeScript** to streamline error resolution process
- Designed and implemented User Admin Control Portal using **Plotly Dash** to manage user permissions and provide real-time analytics, enhancing administrative efficiency and user experience
- Developed internal tooling with **Pandas** and **Bloomberg** APIs to automate security index decomposition process
- Created **PowerBI** dashboards to effectively communicate KPIs for the reference data team

PRE

01/2024 – 05/2024

AI Engineer Intern

Toronto, ON

- Fine-tuned AI statistical model to replicate specific client website behaviors for improved predictive accuracy
- Tested new website mockups, analyzing and generating results to recommend UI/UX improvements

Equitable Bank

05/2023 – 08/2023

Project Manager Intern

Toronto, ON

- Collaborated with 7 business units and 30+ resources to understand new financial processes and designed a detailed project schedule in **MS Project**
- Monitored project progress through **OnePlan** and **JIRA**, identifying risks/issues, and raising them when appropriate
- Conducted technology and operational risk assessments and developed mitigation strategies to minimize potential risks
- Conducted project discovery research and generated high-level requirements, documenting the process in **Confluence**

BDO Lixar

05/2022 – 08/2022

Data Engineer Intern

Oakville, ON

- Developed and optimized **Python** notebooks (via **PySpark** Framework) to facilitate the ETL process
- Built **Azure Data Factory Pipeline** to automate ETL process, resulting in a **20%** improvement in processing time
- Wrote **SQL scripts** and **stored procedures** to automate testing process and moved process from on-prem to cloud by developing **SSIS package**, resulting in reducing auditing analytics time by **80 hours** per client

CliniSmart

01/2022 – 05/2022

Junior Business Analyst

Burlington, ON

- Gathered business requirements and developed functional specifications for the CliniSmart sterilization management system, communicating findings through documentation and presentations
- Prepared design specifications for the interface of CliniSmart's Desktop Application and provided interface mockups

Projects

Temperature Forecasting Model | *Python, Keras and Pandas Libraries, Google Colab*

- Constructed a Long Short-Term Memory (LSTM) deep-learning network using the **Keras** library
- Collected years of hourly weather data from the Government of Canada, and used the **Pandas** library to clean and format the data by sorting, selecting relevant fields, mapping, and removing null rows

RoastRoute - Geographic Information System | *C++, Git*

- Developed RoastRoute, a Geographic Information System (GIS) catering to coffee enthusiasts, using **C++**
- Leveraged the **GoogleMapsAPI** to query nearby coffee shops based on user location, pulling information like ratings
- Employed Dijkstra and an enhanced greedy algorithm for multi-destination routing, ensuring optimal path determination

Skills

Languages: Python (Dash, Pandas, PySpark), C/C++, TypeScript (React), SQL

Cloud Services: Azure Data Factory, Azure Databricks, Azure Data Lake Storage, Amazon Redshift

Data Tools and Technologies: PowerBI, Bloomberg Terminal/APIs, Apache Spark