

BOBBY ZIA

[linkedin.com/in/baberzia](https://www.linkedin.com/in/baberzia) | github.com/bzia | portfolio: bzia.github.io | 416-556-1220 | 18bz23@queensu.ca

EDUCATION

Queen's University

Honours Bachelor of Computing (B. CmpH)

Kingston, ON

September 2019 – April 2023 (Expected)

- **Specialization:** Computer Science
- **Relevant Courses:** Data Structures, Introduction to CS 2 (Java), System-Level Programming (C/Bash)

SKILLS

Languages: JavaScript, HTML/CSS, C, Python, Java, Bash

Tools & Databases: Node. JS, SQL (PostgreSQL), MongoDB, Mongoose, Git, AWS, Linux, Firebase, Figma, TensorFlow

Frameworks/Libraries: React. JS, Vue. JS, Express. JS, Django, Redux, Pandas, NumPy, Scikit-learn

EXPERIENCE

QMIND – Queen's Artificial Intelligence Hub

Kingston, ON

Software Developer

September 2020 – Present

- Developed a python package which will be published on the official PyPi repository for a client project that involves streamlining the creation of matrix and graph-based machine learning models for building Recommendation Systems
- Used object oriented programming principles to build the API on top of TensorFlow Recommenders' deep matrix factorization implementation

Invenew

Toronto, ON

Software Engineer

May 2020 – August 2020

- Managed AWS EC2 instances and developed backend functionality for login/registration pages with Python (Django)
- Prototyped various pages in Figma and developed their respective front-end UI Elements with React.JS and HTML/CSS

Betalab

Kingston, ON

Data Scientist

February 2020 – Present

- Researched and developed a machine learning model using XGBoost to forecast trends in equity market data
- Used NumPy, Pandas, and Scikit-learn to perform data preprocessing and cleaning, feature engineering, and model hyperparameter tuning for a final accuracy of 93.18% accuracy

CARE Pakistan (NGO)

Lahore, Pakistan

Summer Intern - Marketing

June 2018 – July 2018

- Led a 4-person team of interns in devising a marketing campaign to increase funding for youth education nation wide
- Conducted research on innovative methods for increasing community engagement through local social media streams

PROJECTS

StoreFront (Node. JS, Express.JS, MongoDB, React.JS)

- A feature rich E-Commerce platform with an admin portal to manage orders and make inventory updates to the backend
- Features a complete user order tracking and payment system integrated with the help of the PayPal Payments API

Tradr (Node. JS, React.JS, Cloud Firestore, Finnhub Stock API)

- A trading dashboard similar to the popular Robinhood.com that allows the user to view/manage their portfolio
- Uses Finnhub API to pull stock data for the listed stocks and FirestoreDB to save the users portfolio state

WeatherApp (Vue.JS)

- A single-page application displaying the user's city and weather with changing background based on temperature
- Utilized the HTML Geolocation API to get user's location and Open Weather Map API to pull the relevant weather data