

# Zain Huda

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## EDUCATION

### WESTERN UNIVERSITY & IVEY BUSINESS SCHOOL

BS - COMPUTER SCIENCE

HBA - BUSINESS ADMINISTRATION

April 2021 | London, ON

Dean's List (All Semesters)

Cum. GPA: 3.9 / 4.0

Major GPA: 4.0 / 4.0

## TECHNOLOGIES

### LANGUAGES

Proficient

Java • Python • C • Go

R • SQL

Familiar:

Solidity • C++ • Vyper

### MACHINE LEARNING

TensorFlow • Keras • Sci-kit Learn

Jupyter Notebook • Pandas • Numpy

Matplotlib

### FULL STACK

JavaScript • NodeJS • React

Flask • Express • D3

Mongo • CSS • AWS

### SYSTEMS

Linux • Git • Bash

Windows • OSX

## SKILLS

Machine Learning

Object Oriented Programming

Data Science & Analytics

Web Development

Data Structures and Algorithms

Mobile Development

Public Speaking

## AWARDS

Farida and R.K. Rahemtulla HBA

Scholarship, valued at \$ 15000

Western Continuing Admission

Scholarship, valued at \$ 10000

Alexander Rutherford Scholarship,

valued at \$ 2500

1<sup>st</sup>/47 BeatTheStreet Investment

Competition

## EXPERIENCE

### BOW RIVER HEARING | WEB DEVELOPER

August 2018 – Present | Calgary, AB

- Launched a **MERN** stack web application to unify patient on-boarding, patient specific report creation, and business analytics
- Created **React** based slide-deck with interactive components to guide patients and collect information simultaneously, saving providers **30%** of their time per week
- Created enhanced data visualizations using **React** and **d3.js** to help identify areas of improvement in the business facilitating a **10%** increase in revenue
- Overhauled website to accommodate the increasing age demographic to deliver a unified and easier user experience; implemented **AWS Cloudfront** to have page load **15%** faster

### FOUNDERS NETWORK | VP PROJECTS

May 2018 – Present | London, ON

- Accepted into Y Combinator Startup School program
- Launched a **MERN** stack application, leading and teaching team of engineers software development principles
- Lead demo days, pitch days, and monthly progress meetings to crowd source challenge troubleshooting and company advice
- Taught first year students the various stages of a start-up, computer science fundamentals, and business tactics

## PROJECTS

### MACHINE LEARNING TRADER

- Using **Keras**, **TensorFlow**, and **Catalyst** trading library, created a high frequency trading bot in Python that automatically buys and sells Bitcoin/Ethereum; to date it has yielded a **2.7%** return
- Implemented an **LSTM** model to predict time series of Bitcoin and Ethereum and trade in the short term
- Implemented **q-learning** technique to trade Bitcoin and Ethereum in the short term
- Created a web-app to visualize performance of trading strategies using **React**, **Node**, and **d3.js**

### CRYPTOCURRENCY PORTFOLIO TRACKER

- Created mobile app using **React Native** and **Redux** for individuals to keep track of cryptocurrency investments; implemented OAuth using **Firebase**
- Using crypto-wallet addresses, the app dynamically updates holding amounts for currencies
- Using VictoryCharts, created 30 day portfolio visualization to help users inspect value of portfolio over time

### OPENNOTES

- Open source note sharing web-app allowing students to upload notes to specific classes at their university with ease through the use of Google Drive API; created using **React**, **Node**, **MongoDB**, and **Express**