Zain Huda

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EDUCATION

WESTERN UNIVERSITY
BS - Computer Science
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

1st/600 HackWestern (StdLib)
Farida and R.K. Rahemtulla HBA
Scholarship, valued at $ 15000
Western Continuing Admission
Scholarship, valued at $ 10000
Alexander Rutherford Scholarship,
valued at $ 2500
1st/47 BeatTheStreet Investment
Competition

EXPERIENCE

BOW RIVER HEARING | Software Engineer Intern
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 pages 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**