

Makhdoomzada Ahsan Syed



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Makhdoomzada

University of Waterloo – BAsC Honors of Chemical Engineering (CO-OP) & Computing Minor

Skills

Languages: Python, Java, Arduino, HTML, Racket

Tools/Frameworks: MySQL, BootstrapCDN, Numpy, Pandas, Selenium

Others: Excel, CSS, AutoCAD, AutoCAD Plant 3D, Qualtrics, Tableau, Power BI

Experience

Student Engagement/Coordination – University of Waterloo (June 2020 – August 2020)

- Designed Student Engagement webpage by creating an updated and appealing UI
- Created interactive modules for graduate students to teach them about available resources
- Created User Experience Survey for students using Qualtrics software
- Created and provided agenda prior and facilitated monthly staff meetings

Staples Canada electronics associate (June 2018 – December 2019)

- Advised customers on solutions to technical difficulties with sold products
- Thrived in a fast-paced work environment and was able to become trained in multiple areas in a short period of time

Projects

Personal Website (makhdoomzada.github.io)

- Modern personal website built with components and services using HTML, CSS
- Used BootstrapCDN to create a multi-page user friendly website

Data acquisition using Arduino for Henry's constant calculating Pressure vessel

- Created a Wheatstone bridge circuit to convert sensor resistance to a voltage reading measured by Arduino
- Programmed Arduino using wrapper to promote PC and Arduino communication
- Designed a pressure vessel using AutoCAD

Piping and Instrumental Diagram (P&ID)

- Designed a P&ID through AutoCAD 3D for a Nitrogen tank
- Learned about different piping, pressure sensors, gas sensors and other precautions taken when developing documentation

Diabetes Research

- Created a Machine Learning model which can predict diabetes based on weakness, Polyuria, visual blurring, itching, muscle stiffness and obesity
- Used Python libraries such as Numpy and Pandas, to compare the KNN and Linear Regression algorithms in the sklearn library to achieve an overall accuracy of 91%

Extracurriculars

6ixheat_sneaker resell page

- Manage sneaker resell business based in Mississauga/Durham via Instagram with 2000 followers
- Have over 100 items in inventory
- Made over 250 deals in the past year

Junior Secretary and Treasurer – Al-Muntadhir Study Center

- Analyzed and organized financial data using Excel (Pivot tables, Index and Match, VLookup, etc.)
- Allocated annual budget to each cohort of the organization
- Created annual financial report highlighting financial trends and future cash flow projections