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Christopher Habib

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SUMMARY

Data Analyst and Engineer in Training. I enjoy developing and implementing process improvement activities, as well as making well informed decisions based on relevant and accurate data. I'm a responsible and accountable team player with a can-do attitude, ready to challenge myself in fast-paced environments and build on my skills

SKILLS

***DESIGN TOOLS*:**

- PowerBI
- Tableau
- SolidWorks
- AutoCAD
- PSPICE (Circuit Design)
- ANSYS Workbench
- Minitab

CODING:

- Python
- JavaScript
- SQL/MongoDB
- ScikitLearn
- VBA
- HTML/CSS
- MATLAB

OTHERS:

- Team work and coordination
- Written and verbal communication
- Facilitate decision making
- Bilingual in French

EDUCATION

Continuing Studies Data Analytics & Visualization Certificate
***University of Toronto* – Graduating July 2019**

Bachelor of Applied Science and Engineering
***University of Toronto* - Graduated June 2018**
Department of Mechanical and Industrial Engineering with a minor in Business

DATA ANALYTICS PROJECTS

Toronto Parking Tickets Website/App, *Python, JSON, SQL, Scikit Learn, MongoDB* ***April 2019 - Ongoing***

- Extracted, cleaned and loaded City of Toronto parking ticket data for the year 2018 into a SQL database
- Built a heat-map highlighting parking fine distribution in the city of Toronto
- Filtered and displayed data based on user input, and generated relevant analysis
- Develop a Machine Learning model that would predict the city's revenue and the most troublesome areas based on historical data
- Presented website to industry peers at the University's Industry Demo-Day event

Nest Steps:

- Compare fine counts with parking capacity to avoid overcrowding and suggest other parking options for drivers
- Analyze officer routes with ticket data to help manage resources more effectively and suggest improved routes
- Research Green P's new parking payment app and the potential impact it has on the number and types of fines issued
- Match parking rates at different locations with the number of fine counts, and identify any potential trends in data

Drug Side Effect App, *Python*
Team Member ***April 2019***

- Developed basic code to return a list of non-compatible side-effects based on drug active ingredients and lifestyle data
- Future steps include creating a user interface, acquiring more drug data from various nations and deploying as fully functional application

Extract Transform Load (ETL) Project, *Python, SQL* ***March 2019***

- Extracted Parking Ticket data posted by the City of Toronto for the year 2015 and a list of all Green P Parking locations
- Transformed and cleaned both datasets to have matching addresses
- Merged both datasets into a single Pandas DataFrame
- Loaded the new data into a SQL database for easy querying and further analysis in further phases of the project

Personal Website, *JavaScript, HTML, CSS* ***March 2019***

- Built my own personal website using a template created by my instructor
- Modified some functionality and layout aspects of the template using a combination JavaScript and CSS
- Uploaded relevant files such as my resume and pictures to GitHub
- Deployed "website" on GitHub pages

ENGINEERING EXPERIENCE – REFCO METALS (*July 2016 – July 2017)*

Build Request for Service (RFS) Excel Database
Team Member

- Migrated paper based RFS system into an Excel worksheet
- Implemented conditionals to minimize user input errors
- Co-ordinated with multiple departments to gain access to all required data
- Set up back-end macros to generate daily and weekly reports to be sent to relevant department managers

Set new min/max spare tools levels
Team Member

- Analyze tool usage data
- Compile list of potential suppliers with relevant life cycle data
- Proposed new factory tool suppliers with appropriate min/max levels to maintain

Optimizing Production Cell Layout
Team Member

- Reduce production cycle times to increase output by 30% and meet quotas
- Reduced number of operators required from 10 to 7, freeing manpower

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OTHER EXPERIENCE

Math & Physics Tutor, *Academy for Mathematics and English Tutoring* ***October 2018 – December 2018***

- Tutored up to 4 students an hour
- Tutored students of various ages on an array of topics in math and physics
- Kept track of student attendance and academic progress