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Christopher Habib

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SUMMARY

Data Analyst with a background in Mechanical Engineering. Currently completing the Data Analytics program at the University of Toronto to develop and refine my skills in Python, SQL, HTML, JavaScript among many other tools. I enjoy developing and implementing process improvement activities, as well as making well informed decisions based on relevant and accurate data.

TECHNICAL SKILLS

***DESIGN TOOLS*:**

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

CODING:

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

SOFT SKILLS:

- Team work and coordination
- Written and verbal communication
- Bilingual in French

EDUCATION

Data Analytics Bootcamp
***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

PROFESSIONAL ENGINEERING EXPERIENCE

PRODUCTION ENGINEERING INTERN, *REFCO Metals (refcometals.com)*
Manufacturing of automotive aluminum parts (Jaguar, Jeep, Land Rover) **July 2016 – July 2017**

- Factory Improvement Projects
    - Created a digital Request For Service database generating reports on downtime and quality data for upper management
    - Generated & implemented Standard Operating Procedures
    - Optimized cell layouts and cycle times based on production data as to meet client quotas
    - Optimized operator to production cell ratio as to maximize man power efficiency

- Inter-departmental coordination
    - Represented the Production Engineering team in 8D Quality meetings
    - Identified quality defect root causes and took appropriate steps to eliminate the problems
    - Planned factory tools for contractors & prospects based on downtime reports, tool quality and life-cycle

DATA ANALYTICS PROJECTS

Request for Service (RFS) deployment, *Excel*

Team Member ***November-December 2016***

- Build excel database containing all employee names sorted by departments and relevant manufacturing projects
- Set limitations on data logging to minimize errors, and set up daily backups
- Wrote a VBA script to generate downtime, quality and production reports for various departmental managers to assist in decision making

Chicago Crime Analysis, *Python, Excel*

Team Member ***March 2019***

- Analyze impact of socio-economic factors on Chicago's crime rates
- Predicted crime rates based on historical 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

VBA of Wall Street, *VBA (Visual Basic)* ***April 2019***

- Wrote a VBA script to return yearly performance summaries for hundreds of Wall Street stocks
- Color-coded performance for better visual representation of reports

Toronto Parking Tickets Website/App, *Python, JSON, SQL* ***April 2019***

- 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
- Next steps include implementing machine learning to develop a model that would predict the city's revenue and the most common type of fines based on historical data

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ENGINEERING PROJECTS

Personal Urban Mobility Access (PUMA), *General Motors/University of Toronto*

Team Member ***September 2017 – April 2018***

- Design of a lightweight, portable, short range vehicle
- Compile detailed engineering reports highlighting key design features and requirements
- Present conceptual design to international colleagues and faculty in Beijing, China
- Manufacture & present prototype to the client, faculty and other industry leaders

Optimizing Jeep Production Cell Layout, *REFCO Metals*

Team Member ***May 2017 – June 2017***

- Reduce production cycle times as to meet production quotas
- Compile new work instructions and train operators accordingly
- Reduce number of operators in production cell
- Design new layouts to maximize space efficiency and reduce travel distance