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product OWNER – rakr inc. - markham

Conducted detailed pole loading calculations, coordinated team of 4 and managed projects. Developed new innovative & efficient drawing process.

May 2014 – July 2016

Aug 2016 – July 2018

product OWNER – rakr inc. - toronto

Created project plan & deliverables, determined resources & set timeline and created test plans & approach to project for new hardware. Wrote firmware code in C++ using various libraries. Accessed & organized sensor data in Pandas, analyzed trends and provided with stories.

Design Engineer – Mcrae imaging inc. - mississauga

Designed a wide range of mechanical systems & structures and modeled the design in 3D using SolidWorks. Prepared production drawings with BOMs. Worked with electrical engineers to design and develop electrical enclosures.

C++, Python, PostgresSQL, MongoDB, SQLAlchemy, Javascript, D3.js, HTML, Jupyter Notebook, TensorFlow, scikit-learn, Apache Spark

**SKILLS AND IDES**

Pandas, ETL, ML, MS Visual Studio, Eclipse, Arduino IDE

**EDUCATION**

DATA ANALYTICS BOOT-CAMP

University of Toronto, (Toronto)

(Sept 2019 – March 2020)

MASTER OF ENGINEERING (MECHANICAL)

Concordia University (Montreal)

(May 2012 – April 2014)

Visvesvaraya Tech University (India)

(Sept 2007 – May 2011)

BACHELOR OF ENGINEERING (MECHANICAL)

Aug 2018 – Nov 2019

Nov. 2019 - Present

6+ years experienced value-driven & result oriented mechanical engineer with a proven track-record of working with cross-functional teams for conceptualizing, delivering & managing design projects of diverse domains. Adept at taking information from a wide variety of sources and effectively break down concepts in layman terms to diverse audiences. Armed with data parsing, analytics & visualization toolkits and with passion for condensing large data into a simple to understand story, desiring to work as Data Professional.

mechanical engineer – powersmiths corp. – Brampton

Collaborating with team of electrical engineers, certification & compliances consultants and manufacturing vendors, designing electro-mechanical systems and driving projects from idea to production. Implementation & execution of mechanical design intent for structural integrity, manufacturing and cost.

**EXPERIENCE**

HOW GROWTH IN TECH AFFECTS THE GROWTH OF THE CITIES

Created an ETL model to observe the trend among some of the biggest cities, and upcoming cities in the United States to see how tech companies are shaping these cities. Developed the ETL pipeline for extracting data from US Gov. Census data and transformed data in Jupyter Notebook using Pandas library. Used matplotlib library to breakdown the concept and storytelling.

**PROJECTS**

Aug 2018 – Nov 2019

March 2019 – Present

PLANET ON FIRE!

Developed a web application to visualize current bush fire occurrences across the planet, analyzed the historic data & interpreted it to find anomalies and created machine learning model to predict the instances of the bush fires for the year 2020.

Created ETL pipelines in Python and used AWS RDS for PostgreSQL server & MongoDB Atlas for NoSQL. Used Jupyter Notebook for Extraction & transformation, vanilla JS was used for front-end. Created RESTful APIs using Flask framework to serve the JS libraries and to serve the cleaned data.

**PROGRAMMING LANGUAGES & TOOLS**

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**Data Engineer**

**Yatish Mullaji**