

# Maham Hasan

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## **Technical Skills:**

**Programming Languages:** C/C++, Python, HTML/CSS, Java, SQL

**Team Development:** Scrum, Pair programming, Agile and Paper Prototyping

**Software & Operating Systems:** Git, Microsoft Office, Jira, Virtual Box, Windows OS, Mac OS, Linux (Ubuntu & Debian), Jupyter Notebooks, Hadoop, Cognos, Tableau

## **Technical Work Experience:**

### **Data Science Intern**

*Government of Canada, Measurement Canada, Ottawa ON*

*May 2019 – August 2019*

- Formatted, cleaned and filtered large datasets with over a million records of Measurement Canada's inspection data using Python, SQL and Hadoop MapReduce processing
- Analyzed and developed data visualizations using Python Matplotlib libraries and Cognos to create user friendly reports and presentations for managers to present data to key stakeholders
- Automated excel tasks using Python's Pandas dataframes and Openpyxl to conduct automated calculations of Measurement Canada's calibration data, speeding up reporting time
- Analyzed data requirements, data dictionaries and database schemas while developing documentation for further analytics

### **IT Analyst**

*University of Guelph, Guelph, ON*

*September 2017 – April 2019*

- Troubleshooting and repairing computers ensuring up to par performance on machines in the IT infrastructure team
- Constructed a Python script to collect statistics of a computer's CPU usage and automated parsing of CSV files used for updating inventory records that speed up inventory update times by 200%
- Managed, transferred, and maintained pre-existing website databases to newly formed website
- Tested and validated thousands of data submissions in Oracle databases using Jupyter Notebooks

### **Data Analyst Co-op – Cyber Resilience Team**

*CIBC, Toronto ON*

*May 2018 – August 2018*

- Analyzed sensitive data for the Data Loss Prevention (DLP) team, and reported suspicious activity to teams accordingly while ensuring proper protocol was followed
- Lead Lines of Business engagement to identify critical information that needs to be protected that ensured data privacy and security
- Identified and reported any data issues to improve and update DLP processes and best practices

## **Education:**

**Bachelor of Computing, Software Engineering & Minor in Media and Cinema Studies**

*2016 – Present*

*University of Guelph, Guelph ON*

*Expected graduation 2021*

## **Community Engagement & Volunteer Experience:**

**President, Media and Cinema Studies Society**

*April 2019 – Present*

**Director of Relations, Media and Cinema Studies Society**

*July 2018 – April 2019*

**Active Member, Guelph Women in Computer Science**

*January 2018 – Present*

**Attendee, PyCon Canada 2018**

*November 2018*

**Workshop Conductor, Girls Make Games**

*January 2018*