

# Monica Iyer

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## EDUCATION

### UNIVERSITY OF WATERLOO

#### B.MATH IN STATISTICS

April 2021 | Waterloo

## LINKS

Github - [m2iyer](#)

LinkedIn - [monica-iyer](#)

Kaggle - [monicaiyer](#)

## COURSEWORK

Applied Linear Models

Advanced Statistics and Probability

Time Series Forecasting

Statistical Learning - Function Estimation

Stochastic Processes

Data Visualization and Biostatistics

## KEY SKILLS

### Languages

Java • Python • R • SQL • Scala •

HTML/CSS/JS • C

### Frameworks

Pandas/NumPy • Tableau • Tensorflow •

Scikit • AWS • Gatsby • React •

Matplotlib • Google BigQuery/Analytics

### Tools

Visual Studio • Unity • Figma •

## COMMUNITIES

Hack the North

UW Blueprint

StarterHacks

UW Information Technology

UW Virtual Reality

UW Women in STEM

## EXPERIENCE

### KEYHOLE | DATA SCIENTIST INTERN

Sept 2019 - Dec 2019 | Toronto, ON

- Develop key Infrastructure mapping over 10000 customers to their Marketing Channels with Python - improved target market selection by 98/
- Build 10 automated KPI Tableau Dashboards to track sales, marketing metrics and financial growth
- In-depth study of key use cases from 5000 existing clientele and identification of valuable customers using ARPA, LTV and statistical methods

### UBIQUITOUS HEALTH TECHNOLOGY LAB | RESEARCH ANALYST INTERN

June 2019 - Aug 2019 | Waterloo, ON

- Used SQL and Python to qualitatively analyze health and sleep patterns across North American households - reduced dimensionality of massive datasets by 75

### UNIVERSITY OF WATERLOO | COMPUTING CONSULTANT (PART-TIME)

Sept 2018 - Sept 2020 | Waterloo, ON

- Promptly tackled over 500 diverse software and hardware challenges - one of the highest rates on the team
- Consistently dealt with dependency and kernel issues related to multiple OS's like Linux, MacOS, Windows

### SUNLIFE FINANCIAL | NETWORK ENGINEER INTERN

May - Sept 2017,2018 | Kitchener, ON

- Independently handled a million-dollar Network Infrastructure project in Toronto - improved wireless technology capabilities by 35
- Successfully operated and configured infrastructure of data center and load balancing structures with effective knowledge of C, LAN/WAN Technologies and Incident Management

### KAMAL OSMAN JAMJOOM | SOFTWARE DEVELOPER INTERN

May - Aug 2016 | Dubai, U.A.E

- Refactored client-facing database and backend to create new API endpoints and deliver processed retail analytics to over 800 stores
- Developed wireframes and migrated the manual fabrics QA Process to an automated scheduled service using NoSQL, Java and FlairBuilder

## PASSION PROJECTS

### NY BIRTHS IN R

- Different methodologies used in Time Series Forecasting with average monthly births in New York City (1946 - 1959)

### REAL ESTATE MARKET IN R

- Using real estate data with over 10000 data points, 28 influencing vectors and multiple modelling techniques, we analyze the housing market of Washington D.C.

### DC SUPERHEROES IN PYTHON

- Facial Recognition APIs identifying you and your lookalike hero!