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# Mathew Teoh

9170 Wilberforce Street – Burnaby, British Columbia, Canada, V3N4C6

## Industry and Research Experience

**Data Science Intern, Quora** – Mountain View, California                                    **May-Aug. 2016**

Built a framework for extracting patterns in user interests, increasing site engagement by 108%; prototyped a topic recommendation system for new users; performed statistical analysis on website changes affecting user behavior; explored NLP problems to improve question quality {PYTHON PANDAS, PYTHON SEABORN, SQL/REDSHIFT}

**Data Analyst Co-op, Hootsuite Media** – Vancouver, Canada                                    **Jan.-Apr. 2016**

Automated analytics report creation for enterprise customers to be 100x faster; built dashboards that track key business intelligence metrics; extracted and analyzed data to increase user retention rates {TABLEAU, PYTHON, SQL/REDSHIFT, R, BASH}

**Research Intern, University of Konstanz, Computer Science** – Konstanz, Germany                **Jun.-Jul. 2015**

Designed and implemented a text mining algorithm that analyzes hourly volumes of Twitter data, and uses machine learning to detect events that occurred during that time period {PYTHON NUMPY AND SCIKIT-LEARN, SQL, R}

**Software Development Engineer Intern, Microsoft** – Redmond, Washington                        **May-Aug. 2014**

Prototyped a data pipeline for Outlook.com's anti-spam filter to run on Microsoft's version of Hadoop {SQL, C#, HADOOP}

## Education

**Simon Fraser University** – Burnaby, Canada                                                **Sept. 2011-Jun. 2017**
B.S. Mathematics and Computer Science; CGPA 4.22/4.33

**University of Bath** – Bath, United Kingdom                                                **Jan.-Jun. 2015**
Study Abroad term; Mathematics and Computer Science

## Projects

**Baby Monitor** – Hackathon: "NW Hacks"                                                      **Feb. 2016**
Won Best IoT App and 3rd place overall {INTEL EDISON, ANDROID/JAVA, NODE.JS, SOCKET.IO}

**Text Mining Students' Essays** – Course: "Data Mining"                                       **Nov.-Dec. 2015**
Clustered student-written essays according to topics using graph community detection algorithms {PYTHON}

**Compiler** – Course: "Compilers"                                                             **Sept.-Dec. 2015**
Expanded a base compiler to support a language with features similar to Python {JAVA}

**TripAdvisor Machine Learning Project** – Course: "Machine Learning"                          **Nov.-Dec. 2014**
Predicted hotel star ratings using user written reviews {MATLAB, PYTHON NATURAL LANGUAGE TOOLKIT}

## Presentations and Competitions

**Competitor – Association for Computing Machinery (ACM) Regional Contest**                    **Nov. 2014**
Solved algorithmic challenges against west coast universities such as Stanford, Berkeley, and the University of British Columbia {C++}

**Speaker – TEDxKids@BC**                                                                      **Oct. 2012**
Spoke about why children should pursue STEM careers if they are interested; video at
https://www.youtube.com/watch?v=tqUyBkY3x8Y