**Tanner Barlow**

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**LinkedIn**: <https://www.linkedin.com/in/tannerbarlow>

**GitHub**:<https://github.com/tbarlow12>

**Relevant Skills**

|  |  |  |  |
| --- | --- | --- | --- |
| C#/.NET | Java | Python | C++/C |
| SQL/MySQL | Matlab/Octave/R | NLP/Info Extraction | Machine Learning |
| Git | Azure | Big Data | HTML/CSS/JavaScript |

**Education**

|  |  |
| --- | --- |
| **Bachelor of Science in Computer Science, Dec 2017**  **University of Utah, Salt Lake City, Utah** | **3.78 GPA on 4.0 scale** |

**Relevant Courses:**

|  |  |  |  |
| --- | --- | --- | --- |
| Software Practice in C#/C++ | Database Systems | Linear Algebra | Computer Systems |
| Probability and Statistics | Algorithms | Models of Computation | Natural Language Processing |
| Information Extraction | Data Mining | Personal Informatics | Machine Learning |

**Awards and Scholarships**

|  |  |  |  |
| --- | --- | --- | --- |
| Honors - Full Scholarship | Everton Scholarship | Haglund Scholarship | Dean’s List (8 times) |

**Work Experience**

* **Software Engineer Intern, May 2017 – July 2017 (current)**

**Microsoft, WDG DLUX, Redmond, Washington**

* + Working on creating a unified, documented analytics platform for global Windows telemetry data
  + Using telemetry data from a distributed data platform and machine learning technologies, identify Windows Insiders whose device configuration and activity is most representative of users in the retail population
* **Software Engineer Intern, May 2016 – July 2016**

**Microsoft, WDG Localization, Redmond, Washington**

* + Automated process of converting feedback from Windows 10 international customers to actionable bugs.
  + Used NLP technologies to extract subject, sentiment, potential for action and other metadata to identify meaningful feedback (>10 M records) and group by semantic similarity.
* **Software Development Intern, May 2015 – August 2015**

**FamilySearch, Salt Lake City, Utah**

* + Developed internal tools for team of historical geographical researchers
  + Implemented Java application for bulk operations on database of all “places” in the world (> 7 M records)
  + Started planning, design and implementation of new REST API web service to replace Java application

**Favorite Projects**

* “Guide” – Virtual Tour Guide Application
  + Responsible for ASP.NET backend and SQL database as well as audio encoding and on-demand streaming
  + Assisting with development of Android and iOS app
* Wikipedia Question Answering System
  + Use Info. Extraction techniques to find ‘factoids’
  + Classify question and respond with extracted answer
  + 31.2% accuracy on blind test set
* NBA Positional Clustering
  + Pull and clean NBA statistics from public API
  + Perform k-means++ and hierarchical clustering on data to determine player’s “true” statistical position
* Personal Email Response-Time-Predicting Bot
  + Extracted features and used linear regression classifier to predict response time of personal email messages
  + Created bot to send automated response with prediction

**Additional Leadership Experience**

* Microsoft Intern Ambassador
* Microsoft Student Partner
* Director of Technology - non-profit hackathon HackTheU
* President - Computer Programmers at the U of U
* Counselor - Especially for Youth (EFY) program
* Leadership positions (trainer, district leader, zone leader, assistant to the president) as LDS missionary in Santiago, Chile, leading as many as 204 missionaries at one time