**Tanner Barlow**

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**Relevant Skills**

|  |  |  |  |
| --- | --- | --- | --- |
| C#/.NET | Java | Python | C/C++ |
| SQL/MySQL | NLP/Info Extraction | Machine Learning | Git/GitHub |
| Azure | AWS | HTML/CSS/JavaScript | Agile |

**Education**

|  |  |
| --- | --- |
| **Bachelor of Science in Computer Science, Dec 2017**  **University of Utah, Salt Lake City, Utah** | **3.77 GPA on 4.0 scale** |

**Relevant Courses:**

|  |  |  |  |
| --- | --- | --- | --- |
| Database Systems | Software Practice in C#/C++ | 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 at Entrance – Full ride | Dean’s List (7 times) | Everton Memorial Scholarship |

**Work Experience**

* **Software Engineer Intern (2x), May 2016 – July 2016 and May 2017 – July 2017**

**Microsoft, Redmond, Washington**

* + Automated process of converting feedback from Windows 10 international customers to actionable bugs
  + Used NLP technologies to identify meaningful feedbacks (>10 M records) and group by semantic similarity
  + Set up automated cloud-hosted pipeline to run process automatically
  + Assist with the optimization big data pipeline and SQL database to efficiently process records
* **Microsoft Intern Ambassador and Student Partner, January 2016-Present**

**Microsoft, Salt Lake City, Utah**

* + Resume, interview and career guidance related to Microsoft for university students
  + Coordination and instruction of technical workshops for Microsoft web and machine learning technologies
  + Managed social media outreach and budget for workshops and special events
* **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)
  + Starting the planning and design process for 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
  + Assisted with development of Android and iOS app
* Wikipedia Question Answering System (Python)
  + Get Wikipedia articles with REST API request
  + Use Info. Extraction techniques to find ‘factoids’
  + Understand user’s question and respond with factoid
* NBA Positional Clustering
  + Pull and clean NBA statistics from public API
  + Perform k-means++ and hierarchical clustering on data to determine player’s “true” position
* “PomoSphero” timing app for Sphero 2.0 (C#)
  + Connect to Sphero 2.0 robot via Bluetooth
  + Use asynchronous timers to gradually fade color of robot from start to finish, shaking robot when done

**Additional Leadership Experience**

* Executive Board member and Director of Technology for non-profit HackTheU
* President, Computer Programmers at the University of Utah (CPU of U)
* Several leadership positions (trainer, district leader, zone leader, assistant to the president) as a missionary for the LDS church in Santiago, Chile, leading as many as 204 missionaries at one time