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