**Relevant Skills**

|  |  |  |  |
| --- | --- | --- | --- |
| C#/.NET | Python | Java/Android | C++/C |
| Node.js | TypeScript | SQL | Azure |
| Machine Learning/AI | NLP | Apache Spark | Apache Kafka |

**Education**

|  |  |
| --- | --- |
| **Bachelor of Science in Computer Science, Dec 2017**  **University of Utah, Salt Lake City, Utah** | **3.75 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 Redmond, Washington**

**Microsoft: Commercial Software Engineering Jan 2018 – present**

* + Contributed to multiple open-source projects to enable easier and more powerful developer experience on Azure
  + Collaborated on projects with Microsoft partners to build out custom solutions to solve business needs
  + Participated in “hacks” to upskill in new areas of technology and provide feedback to Microsoft product teams

**Software Engineer Intern (2x) Redmond, Washington**

**Microsoft: Windows & Devices Group May 2017 – July 2017, May 2016 – July 2016**

* + Built out data gathering, cleaning, and clustering workflow to identify clusters of Windows devices
  + Created scoring heuristic to identify number of devices represented by each individual device
  + Automated process of converting meaningful feedback from Windows 10 customers to actionable bugs

**Software Development Intern Salt Lake City, Utah**

**FamilySearch May 2015 – August 2015**

* + Implemented Java CLI and designed REST API for bulk operations on database of all places in the world

**Favorite Projects**

* “[Cloud Custodian](https://github.com/capitalone/cloud-custodian/pulls?utf8=%E2%9C%93&q=is%3Amerged+is%3Apr+author%3Atbarlow12+)” – Cloud Resource Manager
  + Added ability to filter on live Azure metrics, shutdown/restart VMs and other Azure integrations
* “[Guide](https://guideapp.github.io/tutorial.html)” – Virtual Tour Guide Application
  + Responsible for ASP.NET backend and SQL database as well as audio encoding and on-demand streaming
* “[Learn It Your Way](https://github.com/tbarlow12/Learn-It-Your-Way)” – Machine Learning API
  + Flask API for users to upload datasets, train models and generate an endpoint for future prediction
* “[Wiki-Answer](https://github.com/tbarlow12/Wiki-Answer)” – Wikipedia Question Answerer
  + Python tool for consuming corpus of Wikipedia articles and answering questions about subjects

**Additional Leadership Experience**

* Director of Technology – HackTheU hackathon
* Microsoft Intern Ambassador & Student Partner
* President - Computer Programmers at the U of U
* Leadership positions (trainer, district leader, zone leader and assistant to president) as LDS missionary in Santiago, Chile, leading as many as 204 missionaries at one time