

# Tanner Barlow

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<http://tannerbarlow.com/>

## KEY SKILLS

Python, Java, C#, C++, Node.js, TypeScript, SQL, Azure, AWS, Machine Learning, NLP, Spark

## WORK EXPERIENCE

*Microsoft, **Software Engineer**, Jan 2018 - Present*  
*Redmond, WA*

- Collaborated on design and implementation of serverless workflow for monitoring cloud resources
- Added Azure operations, unit tests and documentation to “Cloud Custodian” open-source Python project, including real-time metric filters, scheduled operations, and multi-subscription support
- Developed voice-driven Android application for hands-free control of stationary bicycle
- With one other engineer, added support for message encryption to Java SDK for Azure KeyVault

*Microsoft, **Software Engineer Intern**, May 2016 – Aug 2017*  
*Redmond, WA*

- Designed and implemented big data pipeline and k-means clustering analysis of Windows telemetry with scoring function to approximate the representation factor of each device
- Delivered C# CLI tool to automate process of identifying actionable feedback from Windows users

*FamilySearch, **Software Developer Intern**, May 2015 – Aug 2015*  
*Salt Lake City, UT*

- Enhanced and maintained Java CLI tool for running bulk operations on database of historical places
- Designed and created GUI to run on top of existing Java tool for users that struggled using the CLI
- Designed and began implementation for Java REST API to replace desktop application

## OTHER EXPERIENCE

- Created Flask API to train, store and predict with ML models from uploaded user datasets
- Designed and implemented policy engine for automated management of Kanban-style task boards
- Sole developer on backend services for audio tour-guide mobile application, including functionality for content creation, encoding and delivery via streaming or progressive download
- Many ML/NLP projects (real-estate value, e-mail response time, question-answering, etc.)
- Co-Founder and Director of Technology for HackTheU (University of Utah official hackathon)
- Founder and President of Computer Programmers at the U of U (CPU of U)
- Microsoft Intern Ambassador (Aug 2016 – July 2017) & Student Partner (Jan 2016 – July 2017)
- Trainer, district leader, zone leader and assistant to president as LDS missionary

## EDUCATION

Bachelor of Science: Computer Science  
*University of Utah, College of Engineering, Salt Lake City, UT*  
Cumulative GPA: 3.75/4.00

Awards: Honors at Entrance Scholarship, Everton Scholarship, Haglund Scholarship, 8-time Dean’s list