

WILSON FEARN

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EDUCATION

Brigham Young University, Utah

Master of Science

Department of Computer Science

December 2019

Brigham Young University, Utah

Bachelor of Science

Department of Computer Science

Minor in Linguistics, Mathematics

December 2018

Graduated Magna Cum Laude

TECHNICAL SKILLS

Proficient in Python, C#, C++, Linux

Familiar with Pytorch, Tensorflow 2.0, Latex, Java, Javascript, Android Studio

WORK EXPERIENCE

Microsoft

Software Engineer

Feb 2021 - Present

Bing TechHub Team

- Automated workflow for maintaining web scraper service and reduced task time by 80% in some cases.
- Added 4 new metrics for web scraper service that assist users in determining scrape health.
- Drove issue discovery and correction with internal users of proprietary web scraping tool.
- Proposed and got accepted new project idea based on self-directed user interviews about pain points.

Microsoft

Software Engineer

Jan 2020 - Feb 2021

Bing Core Relevance Team

- Reduced cloud-hosted model bottleneck by 30% for data scientists across multiple teams.
- Consolidated legacy feature generation functions in to modern model training framework.
- Designed and executed experiments to inform model feature selection.

Microsoft

Software Engineering Intern

May - Jul 2019

OneDrive Sharepoint

- Provided engineers a model for tagging incidents to reduce noise.
- Assisted in creation of email response bot to automatically respond to support request Emails.
- Created k-NN model to discover related incidents.

Microsoft

Software Engineering Intern

May - Aug 2017

Intune

- Added and tested configuration settings for SCCM device management software.
- Enhanced internal-use device simulator testing tool to support iOS devices.

Brigham Young University

Research Assistant

Oct 2015 - Dec 2018

Applied Machine Learning Lab

- Authored and co-authored papers accepted to top conferences.
- Deployed lab web-based topic modeling tool on AWS.

PUBLICATIONS

Exploring the Relationship Between Algorithm Performance, Vocabulary, and Run-Time in Text Classification NAACL 2021

Wilson Fearn, Orion Weller, Kevin Seppi

Automatic Evaluation of Local Topic Quality ACL 2019

Jeffrey Lund, Piper Armstrong, Wilson Fearn, Stephen Cowley, Courtni Byun, Jordan Boyd-Graber, Kevin Seppi

Cross-referencing Using Fine-grained Topic Modeling NAACL 2019

Jeffrey Lund, Piper Armstrong, Wilson Fearn, Stephen Cowley, Emily Hales, Kevin Seppi

Labeled Anchors and a Scalable, Transparent, and Interactive Classifier EMNLP 2018

Jeffrey Lund, Stephen Cowley, Wilson Fearn, Emily Hales, Kevin Seppi