JACOB MORRISON

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Education

University of Washington *June 2017*
B.S. in Computer Science
Minor in Mathematics

Experience

Google January 2019 - Present
Software Engineer

- Developed a platform that allows advertisers to run statistically rigorous experiments on their ad campaigns
- Lead the creation of tools that help advertisers identify and eliminate biases in their experiments
- Designed and implemented more accurate and efficient data analysis pipelines for A/B tests
- Identified and fixed issues with data attribution affecting more than 60% of all experiments
- Built and migrated to new shared experimentation infrastructure to deduplicate work with other teams
- Lead the implementation of a redesigned interface to make interpreting results faster and easier
- Investigated new statistical methodologies for splitting users between experiment arms

Tableau Software September 2017 - December 2018
Software Engineer

- Lead the design and implementation of a platform for easily creating and deploying microservices to Kubernetes
- Developed web services for modularizing a monolithic code base, drastically reducing time to release code
- Average time to deploy was under 10 minutes, saving developers days to weeks of ramp up on AWS and Kubernetes
- Marketed work internally, driving adoption through presentations, demos and how-to videos

University of Washington December 2016 - August 2017
Research Assistant

- Research in natural language processing, advised by Professors Yangfeng Ji and Noah Smith
- Created a deep learning model for representing and predicting sentence pair relationships
- Achieved near-state of the art performance on a diverse set of evaluation tasks
- Evaluation framework included question answering, discourse relation prediction, and semantic entailment

Tableau Software Summer 2016
Software Engineer Intern

- Created a new native viewing toolbar for Tableau Mobile, recovering over 10% of screen real estate
- Work was presented on the main stage at Tableau Conference 2016

Projects

Natural Language Processing Capstone

- Created a generalized, attentive deep learning model for predicting the relationship between sentences
- Designed a local attention mechanism based a similarity measure between words and sentences

Stanford Search Engine

- Built an end to end, personalized search engine for documents related to Stanford University
- Indexed documents offline, and returned results ranked based on both objective and personalized relevance scores

Technical Strengths

Languages	Java, Python, C
Tools	Git, Unix, AWS, GitLab CI, Helm, Kubernetes, Docker