TED WILD

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SUMMARY

Leadership experience with distributed platform, machine learning and end-to-end projects. Extensive experience with big data, scalable computing, client development

Applied machine learning on web and voice assistant data including semantic parsing, entity extraction and entity linking

End-to-end calling and messaging experiences for smart glasses on Android

EXPERIENCE

Meta June 2019 - Present
Software Engineer, Machine Learning *Redmond, WA*

- Semantic parsing using deep learning. Training and deployment pipeline improved Assistant query parsing model release frequency from once per quarter to once per week
- Voice experiences for smart displays (Portal) and virtual reality (Quest). On-device ASR, automated knowledge graph ingestion of Quest settings and hotfix pipeline for ASR errors
- Technical lead for end-to-end calling and messaging for smart glasses (Ray-Ban Stories and Ray-Ban Meta) on Android. Added support for Ray-Ban Meta to original Ray-Ban Stories code while maintaining Ray-Ban Stories production experience

Microsoft August 2008 - June 2019
Principal Software Engineer *Bellevue, WA*

- Event-driven document understanding platform for Bing question answering and recommendations. Enables shipping features at scale using open technologies such as Spark and Kafka
- Design and implementation for the Bing document understanding platform, which computes features on billions of documents per day for the Bing index and knowledge graph
- Improved developer agility and lowered maintenance costs by enabling the use of C# instead of C++ in the Bing document understanding platform
- Wrapper induction for Bing captions, knowledge graph and Exchange Online emails. Thousands of wrappers extract billions of attributes per day using minimal labeling

EDUCATION

University of Wisconsin-Madison
Ph.D. in Computer Sciences (minor in Statistics) *August 2008*
Thesis: *Optimization-based machine learning and data mining*
M.S. in Computer Sciences *May 2004*

University of Texas at Austin
B.S. in Computer Sciences (Dean's Honored Graduate) *May 2002*

TECHNICAL STRENGTHS

Machine Learning	Semantic parsing, text classification, extraction, latent analysis, feature engineering. Label collection, data cleanup and judgement guidelines. RNNs, Transformers, Lambda-MART, SVMs. Deep learning training and runtime implementation with PyTorch and Torchscript
Big data	Map-reduce and pub-sub systems using Microsoft and Meta technologies. Some experience with Spark, Kafka, HBase
Programming Languages	C++, Kotlin. Some experience with Python, C#, Java, Swift
Mobile development	Android. Some experience with iOS