TED WILD

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SUMMARY

Technical lead on Meta AI voice experiences. Expert at productizing AI-powered experiences on server, iOS, Android and Meta devices (Ray-Ban Meta, Meta Quest and Portal)

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

Applied machine learning on web and voice assistant data including semantic parsing, entity extraction, entity linking, wrapper induction, and document topic analysis

EXPERIENCE

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

- Technical lead for end-to-end calling and messaging for smart glasses (Ray-Ban Stories and Ray-Ban Meta) on Android. Lead 15 engineers to deliver voice notes for Messenger and WhatsApp on Ray-Ban Meta
- 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
- Semantic parsing using deep learning. Training and deployment pipeline improved Assistant query parsing model release frequency from once per quarter to once per week

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 by enabling the use of C# instead of C++ in the Bing document understanding platform, enabling weekly instead of monthly release
- 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

Programming Languages	C++, Kotlin. Some experience with Python, C#, Java, Swift
Mobile development	Android (Google Play Store and AOSP). Some experience with iOS
Big data	Map-reduce and pub-sub systems using Microsoft and Meta technologies. Some experience with Spark, Kafka, HBase
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