POOJA SETHI

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EDUCATION

University of Washington *Seattle, WA* *Sep. 2013 – June 2017*
B.S. in Computer Engineering Magna Cum Laude, GPA: 3.85
• *Best Undergraduate Honors Thesis Award: Respeak: An Accessible, Voice-based, and Crowd-powered Speech Transcription System*
• *Outstanding Computer Engineering Senior Award (awarded to top 2 graduates)*

SELECTED INDUSTRY EXPERIENCE

Facebook, Machine Learning Engineer *Redmond, WA* *October 2017 – Present*
• Natural Language Understanding team for AR/VR and the Facebook Assistant that powers Portal, Oculus, and beyond.
• Built NLU models and infra from the ground up for Facebook's first voice assistant, powered by PyText **[Python, PyTorch, C++]**
• Leading projects to improve quality of end user experience (e.g. active learning, weak supervision, new evaluation metrics).
• Building systems for fast and smooth scaling of NLU (e.g. continuous deployment, auto data labeling and validation functions).

Instagram, Software Engineer Intern *Menlo Park, CA* *Sep. 2016 – Dec. 2016*
• Instagram Explore team, machine learning for video and photo ranking.
• Built data pipelines, developed ranking models, ran A/B tests, and built new features for IG channels and stories. **[Python, Hive]**

Microsoft, Software Engineer Intern *Bellevue, WA* *Jan. 2016 – March 2016*
• Bing Ranking Service team, web page ranking.
• Built a DLL, a dynamically linked library, to support rapid feature development and testing on machine learning models. **[C++]**

Google, Software Engineer Intern *Kirkland, WA* *Sep. 2015 – Dec. 2015*
• Tools and Infrastructure team for Spanner, Google's globally distributed database.
• Designed and developed a random schema generator to complete Spanner's end-to-end integration testing framework **[C++].**

RESEARCH EXPERIENCE

UW Natural Language Processing (NLP) xLab *March 2017 - Sep. 2017*
• Developed a seq-2-seq model for conversational question question generation. Wrote winning Facebook ParlAI grant. Advised by Yejin Choi. **[Python, PyTorch, TensorFlow].** Received 4.0/4.0 grade in graduate-level NLP course as an undergrad.

Allen Institute for Artificial Intelligence (AI2) *March 2015 – June 2015*
• Worked on exploratory research problem of question perturbation i.e. learning to ask fourth-grade science questions of various levels of difficulty. Did data set analysis and question classification by lexical features **[Python].** Advised by Been Kim.

UW Information and Communication Technologies for Development (ICTD) Lab *April 2014 – June 2017*
• Developed Respeak, an Android app that uses crowdsourcing and Automatic Speech Recognition (ASR) to transcribe audio files. Beat ASR accuracy by six times for Hindi audio and three times for Indian-accented English. Advised by Aditya Vashistha and Richard Anderson.

PUBLICATIONS

Respeak: A Voice-based, Crowd-powered Speech Transcription System. Aditya Vashistha, Pooja Sethi, and Richard Anderson. ACM CHI 2017. Best Paper Honorable Mention (top 5% of submissions).

SELECTED HONORS

UW CSE Undergrad Spotlight * Martin Family Foundation Honors Scholar (Full Tuition) * UW Honors Program / Mary Gates Scholarship (Full Tuition) * TUNE House Scholarship (Full Board) * NASA Space Grant Scholar * Google Grace Hopper Conference Scholarship (2016) * Facebook F8 Scholarship (2016) * Granite Falls High School Valedictorian