Weiwu Zhu

19039 84th PL NE, Bothell, WA, 98011　　　(206) 886-5178　　　weiwuzhu@hotmail.com

Education	**Peking University, Beijing, China**	Sep. 2008 - Jun. 2011
	M.S. in Software Engineering	
	Wuhan University, Wuhan, China	Sep. 2004 - Jun. 2008
	B.S. in Software Engineering	

Employment	**Facebook**	Machine Learning Engineer
	Bellevue, WA, United States	Jan. 2020 - Present

- Working on **Ads Ranking** for Facebook App Monetization team as a machine learning engineer, focusing on improving the deep learning models to increase revenues.

	Microsoft	Senior Software Engineer
	Bellevue, WA, United States	Jan. 2015 - Dec. 2019

- Worked on Bing **Local Entity Search** as a **Tech Lead**, especially on entity understanding by leveraging **Deep Learning**, query understanding with **Natural Language Processing** (**NLP**), search relevance, and large scale data mining and crawling.

	Microsoft China	Software Engineer
	Beijing, China	Jul. 2011 - Dec. 2014

- Worked on Microsoft virtual assistant **Cortana** in many different areas, including **Speech Synthesis** (**TTS**) engine, **Natural Language Generation** (**NLG**), and **Knowledge Graph** cataloging billions of entities and their relationships.

Experience	**Speech Group at Microsoft Research Asia**	Intern Researcher
	Beijing, China	Jan. 2010 - Jun. 2011

- Research project: Voice Activity Detection for speech recognition in noisy environments.
- Research project: Speech Enhancement using microphone array for speech recognition.

Patent	**Weiwu Zhu**, jointly with Ming Sui & Shengcai Peng, Language Modeling For Speech Recognition Leveraging Knowledge Graph, *WO2016196320*
	Weiwu Zhu, jointly with Albert J. Thambiratnam & Frank T. Seide, Leveraging speech recognition feedback for voice activity detection, *United States Patent No. 8,650,029*

Publication	**Weiwu Zhu**, Using Knowledge Graph and Search Query Click Logs in Statistical Language Model For Speech Recognition, *InterSpeech 2017*
	Kit Thambiratnam, **Weiwu Zhu**, and Frank Seide, Voice Activity Detection Using Speech Recognizer Feedback, *InterSpeech 2012*

Award	**Hack Day in Microsoft Search Technology Center Asia, China**	Apr. 2013
	Category Winner	
	Microsoft Research Asia, China	Jul. 2011
	Certificate of Excellent Internship	
	Peking University, China	2008 - 2009
	School Scholarship Award	
	Programming Contest in Wuhan University, China	2007 - 2008
	3rd Place Award	

Skill	**Programming**: Skilled in C++, and familiar with Python, C#, Java, and SQL language; Familiar with Object Oriented Programming, Speech Technology, Knowledge Graph, Search Relevance, Design Patterns, Machine Learning, Operating System and Compiler;
	Language: Chinese (native), English (fluent)