

Weiwu Zhu

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Education

Peking University, Beijing, China

M.S. in Software Engineering

Sep. 2008 - Jun. 2011

Wuhan University, Wuhan, China

B.S. in Software Engineering

Sep. 2004 - Jun. 2008

Employment

Microsoft

Bellevue, WA, United States

Senior Software Engineer

Jan. 2015 - Present

- Working on Bing **Local Entity Search** as the **Tech Lead**, especially on entity understanding by leveraging **Deep Learning**, search relevance, and large scale data mining.

Microsoft China

Beijing, China

Software Engineer

Jul. 2011 - Dec. 2014

- Worked on **Knowledge Graph** cataloging billions of entities and their relationships, and drove Microsoft next generation **Answer Platform** based on the Knowledge Graph as the **Tech Lead**, and enabled inexperienced users to create and ship a new Answer experience on **Bing** in few hours efficiently.
- Worked on the backend algorithm of **Speech Synthesis (TTS)** engine and **Natural Language Generation (NLG)** engine for Microsoft **Cortana**, **Xbox**, and Nokia Here turn-by-turn navigation.

Experience

Speech Group at Microsoft Research Asia

Beijing, China

Intern Researcher

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

Category Winner

Apr. 2013

Microsoft Research Asia, China

Certificate of Excellent Internship

Jul. 2011

Peking University, China

School Scholarship Award

2008 - 2009

Programming Contest in Wuhan University, China

3rd Place Award

2007 - 2008

Skill

Programming: Skilled in Python, and familiar with C++, 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)