

# Deric Pang

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## EXPERIENCE

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- Google** Sept. 2019 – Present  
*Software Engineer*  
New York, NY  
· Semantic parsing and question answering for Google Search.
- UW Natural Language Processing** Jan. 2018 – June 2019  
*Researcher, advised by Noah Smith*  
University of Washington  
· Improved textual inference by incorporating syntactic information in neural models [2].
- Unity Technologies** June 2018 – Sept. 2018  
*Machine Learning Intern*  
San Francisco, CA  
· Shipped multi-agent curriculum learning in the Unity Machine Learning Agents Toolkit.
- NVIDIA** Mar. 2018 – June 2018  
*Applied Research Intern*  
Redmond, WA  
· Developed and investigated methods of training neural networks in simulation for autonomous navigation.  
· Built a rover which was 7% more autonomous than robots using previously published techniques.
- Programming Languages and Software Engineering Lab** Mar. 2015 – Jan. 2018  
*Researcher, advised by Michael Ernst, Luke Zettlemoyer, and René Just*  
University of Washington  
· Worked on Tellina, a tool to generate bash commands from plain English using deep learning [1].  
· Created an automatic bug finder using patch minimization and delta debugging techniques [3].
- Amazon Alexa AI** June 2017 – Sept. 2017  
*Software Development Engineering Intern*  
Seattle, WA  
· Shipped features in Amazon’s internal deep learning framework specialized for speech recognition.  
· Built a system to automatically convert Alexa’s acoustic model into other deep learning frameworks.
- Marchex** June 2016 – Sept. 2016  
*Software Engineering Intern*  
Seattle, WA  
· Built an automatic speech recognition system based on the Deep Speech 2 neural network architecture.
- Amazon** Mar. 2016 – June 2016  
*Software Development Engineering Intern*  
Seattle, WA  
· Used AWS SWF, Lambda, S3, DynamoDB, SQS, and SNS to automatically update bank account validation files.

## EDUCATION

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- University of Washington** Sept. 2018 – June 2019  
M.S. in Computer Science  
Thesis: *Improving Natural Language Inference with Syntactic Word Representations*
- University of Washington** Sept. 2014 – Mar. 2018  
B.S. in Computer Science  
Honors: *cum laude* (GPA: 3.79/4.00), Phi Beta Kappa  
CRA Outstanding Undergraduate Researcher Award (Honorable Mention)

## PUBLICATIONS

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- [1] X. V. Lin, C. Wang, D. Pang, K. Vu, L. Zettlemoyer, and M. D. Ernst. Program synthesis from natural language using recurrent neural networks. Technical report, University of Washington, 2017.
- [2] D. Pang, L. H. Lin, and N. A. Smith. Improving natural language inference with a pretrained parser. *arXiv preprint arXiv:1909.08217*, 2019.
- [3] S. Pearson, J. Campos, R. Just, G. Fraser, R. Abreu, M. D. Ernst, D. Pang, and B. Keller. Evaluating and improving fault localization. In *ICSE*, 2017.