Deric Pang

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EXPERIENCE

Google   Sept. 2019 – Present
Software Engineer   Mountain View, CA
· Bringing intelligence to Google products using commonsense knowledge and reasoning.

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
· Created and investigated methods to train 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 Michæl 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].

Alexa Machine Learning — Amazon   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

University of Washington   June 2019
M.S. in Computer Science
Thesis: *Improving Natural Language Inference with Syntactic Word Representations*

University of Washington   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

[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.