Deric Pang

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EDUCATION

University of Washington, Seattle

Graduating June 2019

M.S. in Computer Science

University of Washington, Seattle

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)

Swiss Federal Institute of Technology in Zürich (ETH Zürich)

Sept. 2016 – Feb. 2017

University of Washington Computer Science & Engineering Direct Exchange

Graduate Coursework: Machine Learning, Deep Learning, Statistical Methods, Data Mining

EXPERIENCE

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.

UW Natural Language Processing

Jan. 2018 – Present

Researcher, advised by Noah Smith

University of Washington

· Improving natural language inference by incorporating linguistic structure into neural attention networks.

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.

Programming Languages and Software Engineering Lab

Mar. 2015 – Jan. 2018

Undergraduate Researcher, advised by Michael Ernst, Luke Zettlemoyer, and René Just

University of Washington

- · Worked on the Tellina project [1] to generate bash commands from plain English using deep learning.
- · Created an automatic bug finder using patch minimization and delta debugging techniques [2].

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.

Languages: Python, Java, C, C++, Shell, Scala, HTML & CSS, JavaScript, Languages: PyTorch, MXNet, TensorFlow, AWS, Git, ROS, Unity, D3, Kaldi

PUBLICATIONS

- [1] X. V. Lin, C. Wang, **Deric Pang**, K. Vu, L. Zettlemoyer, and M. D. Ernst. Program synthesis from natural language using recurrent neural networks. Technical Report UW-CSE-17-03-01, University of Washington Department of Computer Science and Engineering, Seattle, WA, USA, Mar. 2017.
- [2] S. Pearson, J. Campos, R. Just, G. Fraser, R. Abreu, M. D. Ernst, **Deric Pang**, and B. Keller. Evaluating and improving fault localization. In *ICSE 2017*, *Proceedings of the 39th International Conference on Software Engineering*, Buenos Aires, Argentina, May 2017.