

Deric Pang

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EDUCATION

University of Washington, Seattle

M.S. in Computer Science

Graduating June 2019

University of Washington, Seattle

B.S. in Computer Science

Honors: *cum laude* (GPA: 3.79/4.00), Phi Beta Kappa

Sept. 2014 – Mar. 2018

Swiss Federal Institute of Technology in Zürich (ETH Zürich)

University of Washington Computer Science & Engineering Direct Exchange

Sept. 2016 – Feb. 2017

Graduate Coursework: Statistical Methods, Data Mining, Information Retrieval

Senior Coursework: Machine Learning, Natural Language Processing, Data Visualization, Complexity, Algorithms, Graphics, Visual Computing

EXPERIENCE

Unity Technologies

Machine Learning Intern

June 2018 – Present

San Francisco, CA

- Working on the Unity Machine Learning Agents Toolkit.

NVIDIA

Applied Research Intern

Mar. 2018 – June 2018

Redmond, WA

- Investigated practical approaches to training autonomous robots in simulation.
- Built an autonomously navigating rover which used a neural network trained only in simulation.

Noah's Ark — UW Natural Language Processing

Researcher, advised by Noah Smith

Jan. 2018 – Present

University of Washington

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

Alexa Machine Learning — Amazon

Software Development Engineering Intern

June 2017 – Sept. 2017

Seattle, WA

- Worked on Amazon's internal deep learning framework specialized for automatic speech recognition.
- Launched a system to translate Alexa's production acoustic model into other deep learning frameworks.

Programming Languages and Software Engineering Lab

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

Mar. 2015 – Jan. 2018

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

Software Engineering/Research Intern

June 2016 – Sept. 2016

Seattle, WA

- Built an automatic speech recognition system based on the Deep Speech 2 neural network architecture.

Amazon

Software Development Engineering Intern

Mar. 2016 – June 2016

Seattle, WA

- Used AWS SWF, Lambda, S3, DynamoDB, SQS, and SNS to automatically update bank account validation files.

SKILLS SUMMARY

Languages: Python, Java, C, C++, Shell, Scala, HTML & CSS, JavaScript, \LaTeX

Tech/Tools: PyTorch, MXNet, TensorFlow, AWS, D3, Git, Ant, Gradle, 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.