DERIC PANG

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EDUCATION

University of Washington, Seattle Graduating June 2019
Combined B.S./M.S. Program in Computer Science
Paul G. Allen School of Computer Science & Engineering
Overall GPA: 3.79/4.00 — Dean's List

Graduate Coursework: Statistical Methods, Data Mining, Information Retrieval
Senior Coursework: Machine Learning, Natural Language Processing, Data Visualization, Complexity, Algorithms, Graphics, Visual Computing

EXPERIENCE

Alexa Machine Learning — Amazon June 2017 – Sept. 2017
Software Development Engineering Intern *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 Mar. 2015 – Present
Undergraduate Researcher, advised by Michael Ernst, Luke Zettlemoyer, and René Just *University of Washington*

- Working 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/Research Intern *Seattle, WA*

- Built an automatic speech recognition system based on the Deep Speech 2 neural network architecture.
- Improved Australian English transcription with the Kaldi automatic speech recognition toolkit.

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.
- Reduced on call workload by 20 hours a month.

Machine Learning | Software Design & Implementation Winter 2016 – Present
Teaching Assistant for CSE 446 and CSE 331 *University of Washington*

- Planned and delivered lectures during weekly recitations.
- Held office hours and provided feedback for homework assignments and programming projects.

SKILLS SUMMARY

Languages: Python, Java, C, C++, Shell, Scala, HTML & CSS, JavaScript, LaTeX
Tech/Tools: TensorFlow, MXNet, PyTorch, 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.