Deric Pang

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EDUCATION

UNIV. OF WASHINGTON
M.S. in Computer Science
Graduating June 2019 | Seattle
Allen School of Computer Science & Engineering
Combined B.S./M.S. Program

UNIV. OF WASHINGTON
B.S. in Computer Science
Graduating June 2018 | Seattle
Allen School of Computer Science & Engineering
Dean's List
GPA: 3.77 / 4.0

ETH ZÜRICH
UW CSE Direct Exchange
2016 Fall Semester
Zürich, Switzerland

LINKS

Github: github.com/dericp
LinkedIn: linkedin.com/in/dericp

COURSEWORK

GRADUATE
Machine Learning for Big Data
Data Mining (ETH)
Information Retrieval (ETH)

UNDERGRADUATE
Machine Learning
Natural Language Processing
Visual Computing (ETH)
Algorithms
Systems Programming
Data Structures & Parallelism
Hardware Software Interface
Software Design & Implementation
Human Computer Interaction (ETH)
Web Programming

SKILLS

LANGUAGES
Python • Java • C • C++ • Shell
Scala • HTML & CSS • JavaScript
PHP • Matlab • LaTeX

TECHS & TOOLS
TensorFlow • MXNet • PyTorch
AWS • Git • Ant • Gradle • Kaldi

EXPERIENCE

AMAZON | Software Development Engineering Intern
June 2017 - Sept 2017 | Seattle, WA

- Intern in Alexa Machine Learning.
- Worked on Amazon's internal deep learning framework specialized for automatic speech recognition.

MARCHEX | Software Engineering/Research Intern
June 2016 – Sept 2016 | Seattle, WA

- Built an automatic speech recognition system using deep learning techniques to transcribe phone calls.
- Trained a neural network based on the Deep Speech 2 architecture.
- Transcribed Australian English with the Kaldi speech recognition toolkit.

AMAZON | Software Development Engineering Intern
Mar. 2016 – June 2016 | Seattle, WA

- Developed business critical software to validate payment instruments.
- Integrated with AWS technologies such as AWS SWF, Lambda, S3, DynamoDB, SQS, and SNS.

UW ALLEN SCHOOL | Teaching Assistant
Winter 2016 – Present | University of Washington

- TA for CSE 446 Machine Learning (Spring 2017, Fall 2017) and CSE 331 Software Design & Implementation (Winter 2016).
- Planned and delivered lectures during weekly recitations.
- Graded and provided feedback for weekly programming projects.
- Met weekly with the lecturing professor to discuss course progress.

RESEARCH

TELLINA TOOL | Undergraduate Researcher
Jan 2017 – June 2017 | UW Allen School

- Advised by Michael Ernst and Luke Zettlemoyer.
- Worked on a tool to generate bash commands from natural language.

PROGRAMMING LANGUAGES AND SOFTWARE ENGINEERING LAB | Undergraduate Researcher
Mar 2015 – Present | UW Allen School

- Advised by Michael Ernst and René Just.
- Built an automatic bug finder using patch minimization and delta debugging techniques.

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 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, D. 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.