DERIC PANG

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SKILLS SUMMARY

Languages: Python, Java, C, C++, Shell, Scala, HTML & CSS, JavaScript, PHP, LaTeX
Tech/Tools: TensorFlow, MXNet, PyTorch, AWS, Git, Ant, Gradle, Kaldi

EDUCATION

University of Washington, Seattle Sept. 2014 – Present
B.S. & M.S. in Computer Science
Paul G. Allen School of Computer Science & Engineering
Dean's List every quarter
Overall GPA: 3.77/4.00

Swiss Federal Institute of Technology in Zürich (ETH Zürich) Fall 2016
University of Washington Computer Science & Engineering Direct Exchange
Took graduate courses in computer science: Data Mining, Information Retrieval

EXPERIENCE

Alexa Machine Learning — Amazon June 2017 – Sept. 2017
Software Development Engineering Intern *Seattle, WA*

- Worked on Amazon's internal deep learning framework which was specialized for automatic speech recognition.

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 to generate bash commands from natural language.
- Built an automatic bug finder using patch minimization and delta debugging techniques.
- Co-authored *Evaluating & improving fault localization techniques* — accepted to ICSE 2017.

Marchex June 2016 – Sept. 2016
Software Engineering/Research Intern *Seattle, WA*

- Built a 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 automatic speech recognition toolkit.

Amazon Mar. 2016 – June 2016
Software Development Engineering Intern *Seattle, WA*

- Developed business critical software in Amazon Payment Services to help validate payment instruments like credit card and bank account numbers.
- Integrated with AWS technologies such as AWS SWF, Lambda, S3, DynamoDB, SQS, and SNS.

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.
- Graded and provided feedback for weekly programming projects.
- Met weekly with the lecturing professor to discuss teaching, grading, and course progress.