

# DERIC PANG

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<https://homes.cs.washington.edu/~dericp>

<https://github.com/dericp>

## SKILLS SUMMARY

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- Built a production system which integrated with AWS to validate credit card and bank account numbers.
- Built speech recognition systems using machine learning and language processing techniques.
- Developed an automated bug finder and co-authored *Evaluating & improving fault localization techniques*.

**Languages:** Java, Python, Shell, JavaScript, Scala, HTML & CSS, PHP, C, C++, Lua

**Tech/Tools:** AWS, Git, Ant, Gradle, Kaldi, Deep Speech 2, Torch, Apache Storm, AngularJS

## EDUCATION

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### University of Washington, Seattle

Sept. 2014 – Present

B.S. in Computer Science

Expected graduation: June 2018

Dean's List every quarter

Overall GPA: 3.78/4.00

### 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

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### Programming Languages and Software Engineering Lab

Mar. 2015 – Present

*Undergraduate Researcher, advised by Michael Ernst and René Just*

*University of Washington*

- Working on the Tellina project to generate bash commands from natural language.
- Built an automated 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 automated 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.

### CSE 331 — Software Design and Implementation

Winter 2016

*Teaching Assistant*

*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.