Wei Dai (David)

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EDUCATION	**Carnegie Mellon University**, Pittsburgh, PA

Ph.D. Candidate   **Aug 2012 – present**

- Expected graduation date: Aug 2017
- Department: Machine Learning, School of Computer Science

California Institute of Technology, Pasadena, CA

Bachelor of Science (Computer Science)   **Aug 2010 – June 2012**

Wesleyan University, Middletown, CT

Bachelor of Art (Physics and Mathematics)   **Aug 2007 – May 2010**

EMPLOYMENT   **Bosch Research**, Pittsburgh, PA

Research Intern   **May 2016 – Aug 2016**

· Used Tensorflow on a GPU cluster to train state-of-the-art convolutional neural networks for environmental sound analysis. Our work is under submission to ICASSP 2017.

Facebook, Menlo Park, CA

Software Engineering Intern   **May 2015 – Aug 2015**

· Developed a distributed machine learning backend for large-scale logistic regression using Petuum parameter server.

· Benchmarked Petuum against Facebook's internal system and open source Vowpal Wabbit; showed that Petuum achieves high system throughput and produces comparable to better models.

Google, Pittsburgh, PA

Software Engineering Intern   **May 2013 – August 2013**

· Contributed to the Ad Quality backend; developed a hyperparameter tuning framework to optimize SmartAds training system with convex and non-convex optimization algorithms; built a web frontend for other teams to interface with the framework.

LinkedIn, Mountain View, CA

Software Developer Intern   **June 2012 – August 2012**

· Implemented several background tasks in the payment backend using Java, Oracle SQL, Python, and Spring Framework.

OpenX, Pasadena, CA

Software Developer Intern   **April 2012 – June 2012**

· Simulated a large number of users to load-test several internal servers using Erlang and Tsung; developed Tsung modules to enable Thrift protocols.

Caltech Computer Science Department, Pasadena, CA

Research Assistant   **June 2011 – September 2011**

· Contributed to the Community Seismic Network project which applies machine learning to detect earthquakes using smartphones.

· Applied *coreset* to training Gaussian mixture model using smartphone acceleration sensor data.

PROGRAMMING   C/C++, Matlab, Python, Java, Linux, LaTeX 2_ε.