Wei Dai (David)

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Education

Carnegie Mellon University, Pittsburgh, PA

Ph.D. Candidate in Machine Learning **2012 – Present**

- Expected graduation date: Aug 2017

M.Sc. in Machine Learning **2012 – 2016**

California Institute of Technology, Pasadena, CA

B.Sc. with Honor in Computer Science **2010 – 2012**

- Research Advisor: Andreas Krause

Wesleyan University, Middletown, CT

B.A. with High Honor in Physics and Mathematics **2007 – 2010**

- Research Advisor: Francis W. Starr

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++, Python, Matlab, Java, Linux, LaTeX 2_ε.