Alex Walczak
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Education

University of California, Berkeley — Berkeley, CA
B.A., Computer Science — *Fall 2013 - Spring 2017*

Stanford University — Stanford, CA
CS230 Deep Learning — *Spring 2019*

– Project: Deep Learning for MRI Reconstruction. github.com/alexwal/cs230-project

Princeton University — Beijing, China
Chinese language immersion in Beijing — *Summer 2015*

National University of Singapore — Singapore
Courses in Southeast Asian culture & history — *Summer 2014*

Work Experience

Apple Inc. — Cupertino, CA
Software Engineer, Accessibility — *October 2018 - Present*

– Improving accessibility of iOS, iPadOS, and tvOS for blind and low-vision users

Adobe Inc. — San Francisco, CA
Machine Learning Software Engineer, Adobe Sensei & Stock Search — *May 2017 - September 2018*

– Fast, large scale deep learning on the cloud powering Adobe Stock Search
– Rapid, parallelized forward inference and indexing of 100s of millions of assets
– Collaborating with Adobe Research to investigate new ML algorithms
– Low latency model serving for interactive Stock Search features

Umbo Computer Vision — Taipei, Taiwan
Machine Learning Intern — *May 2016 - August 2016*

– Developed app for efficient few-shot learning in real time

UC Berkeley EECS & Lawrence Berkeley National Lab — Berkeley, CA
Undergraduate Researcher — *August 2014 - May 2017*

– Created video segmentation algorithm for automating data collection and analysis of rotating E. coli

Skills

Languages: Python, Objective-C, Swift, C, Java, UNIX Shell

Machine Learning: TensorFlow (1 & 2), Torch, GPU

Tools: AWS & other cloud computing, Docker, git, Terraform

Publications

T. Zajdel, **A. Walczak**, D. Sengupta, V. Tieu, & M. Maharbiz, "Towards A Biohybrid Sensing Platform Built on Impedance-based Bacterial Flagellar Motor Tachometry," *IEEE BioCAS*, Turin, Italy. October 2017.

Employment Eligibility

Citizenship: USA, Poland (European Union), Canada

Awards

Berkeley CITRIS Invention Lab Fellowship, 2016
Huang Scholarship, 2015-2016
Santander Bank Scholarship, 2014

Coursework

CS189: Machine Learning
CS170: Algorithms & Complexity
CS162: Operating Systems
EE126: Statistics & Probability
EE123: Digital Signal Processing
M113: Abstract Algebra
EE222: Nonlinear Control Theory
M104: Real Analysis

Hobbies

Chinese Language
Native Polish speaker
College Ski and Snowboard Club
Traveler to 26+ countries