

# David Pollack

## Objective

I would like to join a firm that allows me to implement the more technical aspects of my course work in real world situations, while I complete my studies. In the longer term, I would hope to stay on the team and take on more responsibilities. Relevant courses include: Machine Intelligence II, Multivariate Statistics I & II, Datenanalyse, Statistical Programming Languages

## Experience

### **Co-Founder and CTO @ Cygnus Association Management**

(Atlanta — Aug 2014 - Present)

Founded an real estate management company to manage residential and commercial properties in Atlanta, GA. Responsible for the organization's technological solutions, including but not limited to Google Apps infrastructure, company web presence, and payment services. Collaborate with other cofounders regarding all strategic aspects of the company. Work 100% remotely.

### **Founder @ Tinavg: Alphabets for Everyone**

(Berlin — Mar 2015 - Dec 2016)

Tinavg, This Is Not A Vocabulary Game, utilizes different languages to create a fun, fast-paced pattern matching game that is suitable for all ages. The webapp is constructed on Google Polymer technology stack.

### **Senior Consultant @ Navigant**

(Atlanta — Sep 2006 - Apr 2013)

Completed re-underwrites of over 750 residential home loans for several of the TBTF (Too Big To Fail) US banks in disputes related to the US housing crisis. Managed and reviewed team members' work product. Developed software to automate repetitive tasks that cut the per-loan prep time by an order of a magnitude. Promoted in 2007 and 2010.

### **Machine Learning Fellow @ Fellowship.ai**

(Berlin — Jan 2019 - Present)

Once again, I developed an end-to-end solution to do image classification on a fashion dataset. We achieved state of the art results in the task classifying a fashion style from the Fashion14 dataset. In preparation for a weekly reading group, I optimized an implementation of memory networks on the babi question answer dataset. Worked on implementing semi-supervised semantic segmentation utilizing Deep Extreme Cut and DeepLab-v3+.

## **Lead Developer @ PyTorch Audio**

(Berlin — Jun 2017 - Present)

I am the lead developer for PyTorch's official audio loading library, torchaudio. I work directly with the PyTorch team at Facebook on this project. I have implemented input error checking testing, audio datasets, variable length input collate functions, audio IO functionality via SoX (Sound eXchange), and added audio transformations (both implemented directly in PyTorch and using PyTorch's c++ hooks for SoX's effects chain). Additionally, I transferred the main PyTorch project's code flaking and documentation standards to this project. In October 2018, I was invited to the PyTorch developer conference for my contributions to the project.

## **Machine Learning Engineer @ YEAY GmbH**

(Berlin — Jan 2018 - Jun 2018)

My primary role was to use object recognition on videos to identify different classes of clothing. I utilized a Mask R-CNN-based network with custom additions for blur detection to select the clearest frames. Data prep included finding an appropriate dataset, writing scripts to translate between various annotation formats (PASCAL, COCO, YOLO) and add missing fields such as segmentation naively or algorithmically (i.e. GrabCut). Additionally, I dockerized my solution to make it more portable.

## **Education**

- Master's Program in Economics and Management Science from Humboldt Universität in 2018
- Bachelors of Arts in Economics from Emory University in 2005

## **Languages**

- English (native)
- German (professional working proficiency)
- Arabic (basic)

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