

# Anna Orosz

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## Education

**University of Pennsylvania** | Candidate for B.A. in **Computer Science and Mathematics** graduating in *May 2021*

*Relevant Coursework:* Machine Learning, NLP, Algorithms, Data Structures, Unix, Python, Computer Architecture, Graph Theory and Graph Algorithms, Abstract Algebra, Complex Analysis, Calculus, Language and Automata, Economics

## Professional Experience

**LogMeIn, Inc.** | Machine Learning Intern | Budapest, Hungary *January 2018 – July 2019*

- Specialized in Applied Research in the field of **Natural Language Processing**
- Developed award-winning NLP Hackathon project for training Q&A systems using state-of-the-art Deep Neural Networks
  - 1<sup>st</sup> prize Tech Innovation + Audience favorite prize + 2<sup>nd</sup> place Best Business Value Innovation
- Researched term weighting methods and class hierarchy models to facilitate email automation for Top 5 Bank in India
- Enriched text corpus in multiple languages and ensure stable performance by measuring for Nanorep, Bold360 AI Software
- Worked primarily in Python and with Keras, Tensorflow, scikit-Learn

**Facebook, Inc.** | Software Engineering Intern | Menlo Park, CA *May 2017 – August 2017*

- Built internal client-library for next-generation tool Hyperloop - designed to complete bulk data transfers on behalf of Facebook's Data Science teams in behalf of the **Data Transfer Infrastructure** Team
- Remodeled internal tool COPTA - used to copy huge directories across HDFS clusters and data centers - to depend on Hyperloop in addition to previous dependencies
- Engineered detailed Scuba tables for Hyperloop and COPTA
- Operated with multi-tenancy, network utilization, scheduling, cross-dc connection-pooling in C++

**RapidMiner, Inc.** | Developer Intern | Budapest, Hungary *May 2016 – August 2016*

- Used **Data Science** to program operators in Studio designed to process, analyze and alter data locally
- Designed Operators in Radoop - using Spark scripts - to process data on large scale with Apache Hadoop
- Repaired bugs and designed new features in Java while maintaining a stable infrastructure

## Projects

**QA System** *November 2018 – March 2019*

- Fine-tuned and published the trained BERT model as a service to build a Question Answering system that is able to act as a real-life operator for LogMeIn's Bold360 AI's clients. (won 3 prizes at regional Hackathon) **Python, Tensorflow**

**Youtube Spam Detector** *November 2017*

- Classified comments as ham or spam with Naïve Bayes and SVM models by using tf-idf transformation. **Python, scikit-Learn**

**County Election Predictor** *September 2017*

- Built Neural Network model through keras on Tensorflow to predict if Clinton or Trump wins in a given county. **Python, Keras, Tensorflow**

**Walk-to-unlock** *September 2017*

- Hacked an Android app to track and monitor social media app usage; if usage exceeded a user-defined limit, access to the app was prohibited until physical exercise was detected through the phone's sensor. **Java**

**Image Classification** *May 2017*

- Retrained a Tensorflow neural network ML model trained on the ImageNet Large Visual Recognition Challenge dataset to classify images containing the Penn logo by populating training data through scripts. **Python, Tensorflow**

**Wiki Parser** *April 2017*

- Formed complex graph models by utilizing in-links and out-links to create a directed graph representation of the Wikipedia network and used BFS, DFS, Dijkstra's and Kosaraju's algorithm to research the network. **Java**

**Raspberry Pi Security System** *May 2016*

- Utilized motion detector to initiate the security system to take a picture and trigger email response system. **Python, Shell**

## Skills and Interests

**Programming Languages:** Java, Python, C++, C, OCaml, Bash/Shell, HTML, Assembly Language

**Platforms/Tools/Modules:** Linux/Unix, Git/Mercurial, scikit-Learn, Keras, Tensorflow, Jupyterhub

**Languages:** German (Fluent), Hungarian (Native Speaker), French (Intermediate)

**Interests:** Machine Learning, Artificial Intelligence, Big Data, Open-Source, Horseback-riding, Cinematography

**Activities:** AOE - Engineering Sorority, Penn Tango&UCSwing, Women is CIS (Philadelphia)

Big Data & NLP Meetup, Girls in Science, AFS Intercultural Programs, Momentum Mozgalom (Budapest)