

# Anna Orosz

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## Education

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

May 2021

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

## Professional Experience

**LogMeln, Inc.** | Machine Learning Intern

January 2018 – July 2019

### *Applied Research*

- Developed award-winning Hackathon project for training QA 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 a Top 5 Bank in India
- Enriched text corpus in multiple languages and ensure stable performance through measuring for Nanorep, a Bold360 AI Software

**Facebook, Inc.** | Software Engineering Intern | Menlo Park, CA

May 2017 – August 2017

### *Data Transfer Infrastructure*

- Built internal client-library for next-generation tool Hyperloop - designed to complete bulk data transfers on behalf of Facebook's Data Science teams
- 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, worked primarily in **C++**

**Tutoring Center at University of Pennsylvania** | Philadelphia, PA

August 2016 – December 2017

### *Computer Science and Mathematics*

- Coach 5 college students in individual tutoring sessions on weekly basis
- Advise on programming projects, teach concepts and prepare students for exams

**RapidMiner, Inc.** | Software Developer Intern | Budapest, Hungary

May 2016 – August 2016

### *Backend Development*

- Programmed Operators in Studio designed to process, analyze and alter data on small scale
- Designed Operators in Radoop - using Spark scripts - to process data on large scale on Hadoop clusters
- Repaired bugs and designed new features, worked primarily in **Java**

## Projects

**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, Women in CS, Undergrad Statistics Society (Philadelphia)

Big Data Meetup, Girls in Science, AFS Intercultural Programs (Budapest)