# Anna Orosz

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## Education

**University of Pennsylvania** | **Bachelor's** degree in **Mathematics** and **Computer Science** *May 2021*

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

## Professional Experience

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

- Developed award-winning **Natural Language Processing** project training Q&A systems with state-of-the-art Deep Neural Networks
  - Won 1st prize Tech Innovation + Audience favorite prize + 2nd place Best Business Value Innovation at HackIn hackathon
- 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 ensured stable performance by measuring for Nanorep, Bold360 AI Software
- Specialized in **NLP Applied Research**, worked in *Python* 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 to complete bulk data transfers for Facebook's Data Science Division
- Integrated above library into the **Data Transfer Infrastructure** team's internal tools that are used to copy huge directories across *Hadoop Distributed File System (HDFS)* clusters and data centers
- Engineered detailed log tables for the libraries and 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

**Q&A System** | LogMeIn's HackIn Hackathon *November 2018 – March 2019*

Built a Question-Answering system using BERT that acts as a real-life operator for LogMeIn's Bold360 AI's clients [**TensorFlow]**

**Youtube Spam Detector** *November 2017*

Classified comments as ham or spam with Naïve Bayes and SVM models by using TF-IDF transformation. **[scikit-learn]**

**County Election Predictor** *September 2017*

Built Neural Network model to predict if Clinton or Trump wins in counties. **[Keras, TensorFlow]**

**Image Classification** *May 2017*

Trained a neural network on an ImageNet dataset to classify images containing the UPenn logo. **[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]**

## Leadership Experience

**The Daily Pennsylvanian:** *Principal Machine Learning Engineer* at UPenn school newspaper's analytics department
**AΩE Engineering Sorority:** *Mentor* to students in a professional engineering sorority for women in STEM
**Tutoring Center @UPenn:** *Tutor* to fellow undergraduates for Computer and Information Science & Mathematics college courses
**Science is a Woman Thing:** *Creator & Organizer* for Hungary's 1st *STEM conference* for several hundred high school female students

## Proficiencies and Passions

**Programming Languages:** Python, Java, C++, C, OCaml, Bash/Shell, HTML, Assembly Language
**Platforms/Tools/Modules:** Linux/Unix, Git/Mercurial, scikit-learn, Keras, TensorFlow, JupyterHub/Lab
**Languages:** German (Fluent), Hungarian (Native Speaker), French (Intermediate)
**Interests:** Machine Learning, Artificial Intelligence, Big Data, Open-Source
**Activities & Hobbies:** Tango and Swing dancing, riding Vespa's, horseback-riding, skating & skiing, cinematography