JOE LEDGER

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EDUCATION

Case Western Reserve University (CWRU)

Cleveland, OH

M.S. in Computer Science

Expected Graduation: Spring 2018

Graduate GPA: 4.0

Expected Graduation: Spring 2017

B.S. in Computer Science

Minor: Applied Data Science Undergraduate GPA: 3.56

Bronx High School of Science

Graduated: Spring 2013

WORK EXPERIENCE

CWRU Department of Computer Science

Undergraduate Researcher

Summers: 2015, 2016 Cleveland, OH

- · Summer 2016: Worked on Indexed Personalized Page Rank
 - · Accelerated Personalized Page Rank (PPR) computations by using precomputed proximity vectors.
 - · Results are promising: 50% speed increases for selected parameter settings.
- · Summer 2015: Worked on the Cell Line Classification Project
 - · Used machine learning algorithms (Support Vector Machines and Decision Trees) to classify cell lines by their reaction to the cancer drug SMAPs using gene expression and IC50 data.
 - · Presented results at the 2015 CWRU Data Science Symposium and 2016 Research ShowCase.

CWRU Office of Sustainability

Spring 2016 (Part Time)

Green Lab Auditor

Cleveland, OH

- · Developed a desktop application that creates customizable visualizations from energy sensor data.
- · Application is used by lab auditors who write reports on how behavior changes could save energy.

BldgScout

Summer 2016 (Part Time)

Cleveland, OH

Backend Development Intern

- · Fixed security issue with existing UnVolt Engine involving the processing of user passwords.
- · Prototyped new version of UnVolt Engine using Java Spring Boot.
- · Designed and implemented scalability and correctness tests for all API endpoints.

RELEVANT COURSEWORK

Data Mining High Performance Scientific Computing Machine Learning Software Engineering

Database Systems Computer Networks Algorithms Software Craftsmanship

*Courses in **bold** were taken at the graduate level.

TECHNICAL SKILLS

- · Highly Proficient with programming languages Java and Python.
- · Proficient with SQL.
- · Some experience with C, C#, Scheme.

- · Experience with data science tools Pandas, Scikit-learn, SciPy, and NumPy.
- · Experienced with Git, Linux Command Line, LaTeX.
- · Experience with Cross-Platform Desktop Application Development with Qt.
- · Experience with REST API development with Java Spring Boot.

HONORS AND AWARDS

· University Merit Scholarship

August 2013 - Present

· Alumni Association Outstanding Junior/Senior Scholarship

Spring 2016 - Present

· Dean's High Honor Roll

Spring 2014, Fall 2014

· Dean's Honor Roll

Spring 2015, Fall 2015, Spring 2016

· Varsity Athlete (Cross-Country, Track & Field) for CWRU

August 2013 - Present

· 4x UAA All-Academic Team

Spring 2014 - Present