

# Andrew Omar Loutfi

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## EDUCATION

**Luther College** ~ Decorah, IA

**Bachelor of Arts in Computer Science**, Luther College

Emphasis: Software Engineering, Data Science, Machine Learning

May 2017

GPA: **3.4/4.0**

**Lake Forest College** ~ Lake Forest, IL

Courses: Politics, Economics, and Statistics

09/2012 – 05/2015

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, HTML, CSS, SQL, Bash, Swift, Java

**Frameworks:** AngularJS, JQuery, Flask, Pandas, SciKit-Learn, Numpy, Plotly, TensorFlow, BeautifulSoup

**Tools:** Microsoft Office, PyCharm, Atom, GitHub, Jupyter Notebooks, Slack, JSON, XML, GCP

## CODE PROJECTS

**TEXchange**

09/2016 - Present

- Web-based software development team project
- Serves as an intermediary, enabling students to buy and sell textbooks directly to and from each other on a given campus, saving students time and money

**Analysis of Breast Cancer – Wisconsin (Diagnostic) Data Set**

04/2017 – 05/2017

- Applied various nonlinear Machine Learning approaches to optimize recall
- Utilized Scikit-Learn Machine Learning Library

## EXPERIENCE

**IBM Shadow Program**

01/2016

- Shadowed various members of IBM Watson's Clinical Trial Matching project
- Observed members code, plan, and collaborate on design of software being build

## ACADEMIC PAPERS

**IBM Shadow Program Reflection**

01/2016

- A high level view of Watson for CTM and how its team works

**How Search Engines Work**

09/2016 – 12/2016

- How the hypertextual search engine Google works, how Google compares to other well-known hypertextual search engines, and the future of searching beyond hypertext search engines

## LEADERSHIP EXPERIENCE

**Luther College Kendama Club** ~ *Co-Founder*

02/2016 – 05-2017

- Kendama is a skill toy consisting of the “ken” (a handle with 3 cups and a spike) and a “dama” (a ball connected to the Ken by a string with a hole at the bottom)
- Co-founded and established the organization with intention to foster and expose Kendama at Luther

**Lake Forest College Student Government** ~ *Elected Representative*

09/2012 – 05/2014

- Collaborated with peers and administration on many resolutions ranging from club expenditures to campus-wide resolutions

**College Life Committee** ~ *Elected Representative*

10/2012 – 05/2013

- Advised Dean of Students on issues ranging from updating Lake Forest's sexual misconduct policy to issues on marketing of the college