

# Andrew Omar Loutfi

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## EDUCATION

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**Luther College** ~ Decorah, IA

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

May 2017

Emphasis: Software Engineering, Data Science, Machine Learning

GPA: **3.4/4.0**

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

09/2012 – 05/2015

Courses: Politics, Economics, and Statistics

## TECHNICAL SKILLS

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

**Operating Systems:** Windows OS, OS X, Ubuntu, iOS, Android OS

**Tools:** Microsoft Office Suite, Eclipse, PyCharm, GitHub, Atom, Xcode, Wing, Jupyter, Slack

## CODE PROJECTS

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**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 non-linear Machine Learning approaches to optimize recall
- Utilized Scikit-Learn Machine Learning Library

## EXPERIENCE

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**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

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**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

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

02/2016 – 05/2017

- Kendama: 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