

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: PyCharm, Atom, GitHub, Jupyter Notebooks, Slack, JSON, XML, GCP, Dreamfactory

CODE PROJECTS

TEXchange 09/2016 - Present

- Web-based software development team project; worked as lead developer
- 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

NorseVisage 08/2017-09/2017

- Implemented a facial recognition server for Luther College
- Utilized an open-source python facial recognition library and a SQL-driven database of student's faces.

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