

# Jacob Lebowitz

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GitHub: <https://github.com/AugmentedMode>

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## Education:

### Kent State University

Bachelor of Science in Computer Science – 3.2 GPA

Concentration: Data Engineering

Kent, Ohio

May 2021

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## Work Experience:

### Kent State University, Kent, Ohio

September 2019 – Current

*Undergraduate Researcher*

- Currently working on a web-based research tool to capture, visually represent, and compare the knowledge structure within a text to identify a learner's misconceptions

### Rockwell Automation, Milwaukee, Wisconsin

May 2019 – August 2019

*Portfolio Management and Machine Learning IT Intern*

- Used NLP to cluster all internal IT support tickets for each business capability to highlight top call drivers and gain insights into root causes, relieving unplanned work
- Achieved material impact using data to illustrate process gaps which led to reducing company expenditures in excess of a million dollars
- Performed data extraction and manipulation over large relational datasets using SQL

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## Achievements / Awards:

### Lyft Data Challenge Finalist

September 2019

- Recommended a driver's lifetime value by developing predictive models and statistical analysis
- Submitted a write-up containing actionable business recommendations to reduce driver churn rate

### Rockwell Automation CIO Award

Summer 2019

- Recognized for impacting those around me and delivering innovative solutions

### Literature Library Chatbot

Summer 2019

- Led team of 7 to create a chatbot for Rockwell's Student Innovation challenge earning 1<sup>st</sup> Place
- Used NLTK and Gensim to summarize large PDF's to increase information processing speed

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## Personal Projects / Hackathons:

### Rhythmic Learning

October 2019

- Built a web app that generates a rhyming rap from any topic to make learning more easily digestible
- Earned J.P. Morgan's Best Hack for Social Good and 3<sup>rd</sup> Place overall at Kent State's Hackathon

### Cube Learning

July 2019

- Created a self-solving 2x2 Rubik's cube using a type of reinforcement learning called Q-learning

### Energy Management Toolkit

July 2019

- Placed 1<sup>st</sup> at 24toCode by creating a web app to display real-time predictions for peak energy demand

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## Skills:

- **Languages:** Python, C++, SQL
- **Data Science:** Pandas, NumPy, Matplotlib, Seaborn, NLTK, Scikit-Learn
- **Technologies/Frameworks:** Power BI, Machine Learning, NLP, Flask, Git