

# JOSH MEIER

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## EDUCATION

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### University of Colorado Boulder

*August 2017 - Pres*

Majoring in Bachelor of Arts in Computer Science  
Minor in Mathematics

## PROJECTS

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### Sentiment Analysis AI (Python)

Created logistical regression AI using a large labeled data set of reviews from various yelp locations. Allowed edge cases of sarcasm, and dealt with faulty data and management of labeling. Used N-grams as parsing method for data which resulted in a accuracy of  $78\% \pm 12\%$ .

### Magic the Gathering Card Visualization Database (JS, NodeJS, HTML)

Designed, implemented, and hosted a full stack project to create a search engine for Magic the Gathering Cards. Used dynamic API calls to populate front end while paginating API queries. Used HTML and Bootstrap to create a easily understandable UI.

### Magic the Gathering Sorted Database (C++) - Group Project

Lead and managed a project to organize 10,000 Cards in a database by multiple metrics. Individually designed and implemented an algorithm utilizing the projects database, that changed a binary search tree connected to a hash table into a max heap connected to a hash table, and reduced the search time for the most common colors to  $O(1)$ .

## SKILLS

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<b>Languages</b>	C/C++, Python & Java (Proficient), JS (Working Knowledge), Scala(Exposure)
<b>Development Tools</b>	Visual Studio, Eclipse, Pycharm, TensorFlow (Exposure)
<b>Software &amp; Tools</b>	Latex, Git, PostgreSQL
<b>Math</b>	Probability, Graph Theory, Advanced Calculus, Statistics
<b>Other</b>	HTML, CSS & MS Office, Regex, Linux/Unix

## WORK EXPERIENCE

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### College Math Tutor

*2016 - 2017*

Tutored individuals in Differential Calculus and below.

### Video game startup

*December 2019 - pres*

Worked in a agile SCRUM environment to produce working code tied to NPC conversations.

## EXTRA-CURRICULAR

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Leader of a small group focused on preparing for coding interviews.

Lead two group projects in spring 2020 focused on app development and a web app development.

Focused on helping a wide range of students build and maintain websites and resumes.

Participant of University of Colorado Boulder Hackathon 2019-2020.

Tutor for high school students 2020-pres