

# Maggie Yan

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## SKILLS

Git, Python, C/++, Java, JavaScript, React, Redux, Node, HTML, CSS

AWS, Heroku, PostgreSQL, SQL, SQLite3, MongoDB, Redis, Ruby on Rails, Express

## PROJECTS

**Pintellect** (Rails, ReactJS, Redux, PostgreSQL)

[live](#) | [github](#)

*An online visual discovery engine inspired by Pinterest and my love of art and science.*

- Handled data validation and user authentication on the backend.
- Leveraged polymorphic associations to reduce queries and optimize storage.
- Implemented custom search algorithms using Active Record as well as Redux state, allowing users to filter for specific boards and save pins to them.
- Designed an algorithmic solution to resize randomly generated images onto a grid while maintaining aspect ratio and page responsiveness.

**Menutube** (AWS, MongoDB, Mongoose, Express.js, ReactJS, Node.js)

[live](#) | [github](#)

*A video sharing platform that allows users to plan their meals based on nutrition needs, diet preference and ingredients on hand.*

- Led the team to complete UI styling and design in under 4 hours while maintaining consistency across all site elements.
- Designed an algorithm in the backend, allowing the frontend to send one request querying data from multiple models.
- Implemented a multipurpose React Component using the Drag and Drop API to integrate content with a meal-planning calendar interface.
- Hosted video content on AWS and indexed video S3 links for easy retrieval.

**AlgoViz** (JavaScript, p5)

[live](#) | [github](#)

*A visualizer that shows how algorithms find paths from a point of origin to a destination based on graph theory.*

- Utilized Dijkstra's algorithm, A\*, BFS and DFS to find a path.
- Developed customized Priority Queue data structure, implementing Vertex and Edge classes to mimic graph theory.
- Computed octile distance heuristics to determine efficiency of pathfinding.

## EXPERIENCE

**Graduate Assistant**

Baruch College

October 2017 - August 2019

- Extracted, cleaned and analyzed data from company's annual 13-DA filings to research how hedge funds can influence a company's strategy.
- Lead TA who communicates frequently with the professor to ensure our progress and data accuracy.

**Fortress Trading Competition**

2014

- Used R to pull financial data from Yahoo Finance and analyze via various statistical models.

## EDUCATION

**Web Development** - [App Academy](#)

Fall 2020

*Immersive software development course with a focus on full-stack web development, which entailed 1000+ hours of coding.*

**Stanford University** - [Data Structures](#) (5 credits), [Discrete Maths and Theory of Computation](#) (5 credits)

**UC Berkeley** - [Computer Architecture \(Machine structure\)](#) (4 credits)

**Harvard Extension School** - [Multivariable Calculus](#) (4 credits), [Linear Algebra](#) (4 credits)

**Baruch college** - M.S Finance

- M.S Accounting

**University of Auckland** - B.com Economics and Finance