Maggie Yan

(347) 735-1626   4everyan@gmail.com   Location   **PORTFOLIO**   **GITHUB**   **LINKEDIN**

SKILLS

Python, C++, C, Java, RISC-V, JavaScript, Ruby, Ruby on Rails, Mongoose, MongoDB, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, React, Redux, Node.js, Express.js, p5.js, HTML, CSS, Heroku, AWS

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..
- Designed custom search algorithms using Active Record as well as Redux state, allowing users to filter for specific boards and save pins to them.
- Developed a customized algorithm to resize randomly generated images onto a grid without distorting the aspect ratio.

Menutube   (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.
- Designed an algorithm and implemented Mongoose in the backend to manage multiple requests at once while maintaining normalized state for efficiency of data access.
- Implemented a multipurpose React Component using the Drag and Drop API to transform any content to be dragged into and stored in a calendar interface that we created for meal planning.
- Established a front end connection to AWS via AWS-SDK to organize video uploading for recipe creation, retrieving a certified url for easy backend storage.

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 from any start point to a destination.
- Developed customized Priority Queue data structure, implementing Vertex and Edge classes to mimic graph theory.
- Computed heuristic cost of A* algorithm by utilizing octile distance to increase efficiency of pathfinding.

EXPERIENCE

Graduate Assistant
Baruch College   Oct 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.
- Recognized by professors for pulling the team to finish line and wearing multiple hats.

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