

Ting-Chien Meng

tcm390@nyu.edu • +1 818-858-9957 • joemengportfolio.herokuapp.com

EDUCATION

New York University, New York, NY

Jan 2020 – Dec 2021

Computer Science, Master of Science

Tatung University, Taipei, Taiwan

Sep 2014 – Jun 2018

Computer Science, Bachelor of Science

Relevant Coursework: Artificial Intelligence, DevOps and Agile Methodologies, Honors Analysis of Algorithms, Computer Graphics, Data Communications & Networks

RELEVANT PROJECT EXPERIENCE

See more at joemengportfolio.herokuapp.com/

Let's Go! Trader Joe's

Dec 2021

<https://lets-go-trader-joes.com/>

- Built and deployed a full-stack website using **React**, **Express**, **Node.js**, **MongoDB** and **IBM Cloud Foundry** to track and review 2000+ products at Trader Joe's.
- Developed single page-based UI and re-usable front-end components with **React**, **Redux** and **Semantic UI**.
- Implemented a web scraper with **Python** and Beautiful Soup to scrape data across Trader Joe's webpages.
- Developed **RESTful APIs** with Express, Node.js and MongoDB to handle CRUD requests and designed MongoDB database models and schemas to store 10,000+ rows of user, reviews, and product data.
- Implemented a user authentication system with Passport.js for **OAuth2** based users (FB/Google/GitHub) and utilized Node.js and **Multer** to handle image file uploads.

kidown.io: Three.js based Web APP Game

Aug 2021

<https://kidown.io/>

- Developed a real-time, web-based multiplayer game with **Node.js**, **Three.js**, and **WebGL** and deployed on IBM Cloud Foundry.
- Utilized **WebSocket** to send and receive messages per millisecond from server to update the UI in real-time.
- Designed data models and schemas in **PostgreSQL** for score data and utilized **Blender** to create 20+ 3D models.

Stock Portfolio: Flask based Website

July 2021

<https://flask-stockportfolioio.herokuapp.com/>

- Developed a web application with **Python**, **Flask** and **SQLite** to manage and track user's stock portfolios.
- Utilized the Alpha Vantage API to retrieve 5+ years of stock data and visualized the data using **Chart.js**.
- Utilized TDD (with **pytest**) to implement functionality to the application.
- Integrated **Heroku** and **Travis CI** to the GitHub repo to automatically run tests and deploy builds.

Hadoop based Analysis for Alcohol Abuse

Oct 2020

github.com/tcm390/Hadoop_Project/blob/master/RBDA_Paper.pdf

- Developed a Hadoop-based analysis project via **Java**, **Hadoop**, **Hive** and **Apache Spark** to analyze correlation of alcohol abuse and social factors and to predict required health services for those admitted to hospitals.
- Utilized **MapReduce** and **Spark MLlib** to process and analyze 50GB+ worth of public health datasets.
- Published a paper and created data visualizations in **Tableau** to illustrate findings.

TECHNICAL SKILLS

Languages: Java, JavaScript, C++, C, Python, SQL, HTML/CSS

Databases/Tools: MongoDB, PostgreSQL, Git, Docker, K8s, IBM Cloud, Heroku, Travis CI, MATLAB

Frameworks: Node.js, React, Redux, Three.js, Cannon.js, WebGL, HDFS, Hadoop, Spark, Hive, Flask, OpenMP