Ting-Chien Meng

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EDUCATION

New York University, New York, NY   Jan 2020 – Dec 2021
Computer Science, Master of Science, GPA: 3.53/4.00

Tatung University, Taipei, Taiwan   Sep 2014 – Jun 2018
Computer Science, Bachelor of Science, GPA: 3.5/4.00

TECHNICAL SKILLS

Languages: Java, JavaScript, C++, C, Python, SQL, HTML/CSS
Databases: MongoDB, PostgreSQL
Frameworks: Node.js, React, Redux, Three.js, Cannon.js, WebGL, HDFS, Hadoop, Spark, Hive, Flask**,** OpenMP
Tools: Git, Docker, K8s, IBM Cloud, Heroku, Travis CI, MATLAB
Operating Systems: Windows, Linux, Mac OS

PROJECTS   See more at *joemengportfolio.herokuapp.com/*

Let's Go! Trader Joe's   Dec 2021 – 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 – 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 – 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**.
- Integrated **Heroku** and **Travis CI** to the Github repo to automatically run tests and deploy builds.

Hadoop based Analysis System for Alcohol Abuse   Sep 2020 – Oct 2020
github.com/tcm390/Hadoop_Project/blob/master/RBDA_Paper.pdf

- Developed a Hadoop-based analysis system 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.