Ting-Chien Meng

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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

TECHNICAL SKILLS

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

PROJECTS

Let's Go! Trader Joe's: React.js based Review Website **Dec 2021 – Dec 2021**
Link: https://lets-go-trader-joes.com/

- Implemented the web service with Node.js on MongoDB and deployed on IBM cloud foundry.
- Implemented the frontend with ReactJS, Redux for single page application.
- Used beautiful soup to scrape Trader Joe's website data and built a RESTful API with Express and MongoDB.
- Used Mongoose to manage MongoDB for user data, review data, product data, etc.
- Implemented the user authentication with Passport.js for Oauth2 based users (FB/Google/GitHub)
- Used Multer for handling user's uploading image files.

kidown.io: Three.js based Web APP Game **Aug 2021 – Aug 2021**
Link: https://kidown.io/

- Implemented a real-time multiplayer game with Node.js, Three.js and deployed on IBM cloud foundry.
- Used WebSocket for communication between Node.js and player.
- Implemented the frontend with Three.js and WebGL for web application game.
- Used PostgreSQL as the database for user's score data.
- Used Blender to create the 3D models.

Stock Portfolio: Flask based Website **July 2021 – July 2021**
Link: https://flask-stockportfolioio.herokuapp.com/

- Developed a web application for managing a stock portfolio via Python 3 and Flask.
- Utilized Flask-SQLAlchemy to interact with the SQLite database
- Utilized TDD to implement functionality to the Flask app.
- Retrieved stock data from Alpha Vantage API and visualized stock data using Chart.js.
- Integrated Heroku, Travis CI for CI/CD.

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

- Developed the system via Java, Hadoop, Apache Spark on Hive database.
- Used Java MapReduce for big data processing.
- Used Spark MLlib for data analysis.
- Created data visualizations to illustrate our findings using Tableau.