Frederick Ho

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Skills

Tools: MongoDB Atlas, Express.js, React.js, Node.js, Django, Firebase, Arduino, GIMP, Android Studio Maker, MySQL, Github, Zenhub

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

Education

University at Buffalo (UB), Buffalo, NY   09/15 - 05/19
 Computer Science B.S.

Projects

Sale Notifier | freds-price-checker.herokuapp.com

- Node.js app utilizing MERN stack that emails you when clothing item goes on sale
- Developed RESTful API for HTTP requests to Express server
- Stored an item's URL, user's email, and price in MongoDB Atlas via Mongoose
- Usage of Express.js to manage routes and HTTP requests
- Wrote stateful user interface using React.js
- Usage of Node.js to handle server-side Javascript
- Installation of npm modules axios and cheerio to request URLS and webscrape information
- Installation of npm modules cron and nodemailer to automate web scraping and sending emails

DKDrafter

- Optimizes 8 players in a set of NBA games based on 2K Ratings and average FPPG
- Usage of Python module CSV in order to parse user's CSV input file
- Usage of Python module Requests and BeautifulSoup to web scrape data from 2kratings.com
- Usage of MySQL database in order to store player name and rating
- Written in Django web framework

BudgetBud

- Usage of Firebase Authentication for secure account creation
- Usage of Cloud Firestore to store information regarding a user's budgets
- Responsible for writing and reading data from Firestore
- Utilized Agile development and Scrum Board

Room Counter

- Embedded system that tracks people entering a room
- Usage of two Passive Infrared Motion Sensors to track movement
- Usage of Adafruit's Feather M0 Wifi to upload data to web server
- Wrote detection algorithm and connection to web server in Arduino's IDE

Work Experience

Office of Assemblymember Mosley, NYS Assembly   (June 2018 - August 2018)

- Developed Walter Mosley App
- Connects constituents to Mosley's Facebook, Twitter, Gmail, YouTube, Instagram, and Albany and NYC offices
- Usage of Android Studio Maker and Java to develop app
- Usage of GIMP for editing images
- Published on Google Play Store