





# Frederick Ho

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## Skills

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

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

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## Education

University at Buffalo (UB), Buffalo, NY  
Computer Science B.S.

09/15 - 05/19

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## Projects

### Sale Notifier | [freds-price-checker.herokuapp.com](https://freds-price-checker.herokuapp.com)

- Sale Alert 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 UI 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

### NYC Bathrooms | <https://nyc-bathrooms.herokuapp.com>

- NYC Bathroom Locator app utilizing MERN stack
- Usage of Google Maps JavaScript API
- Usage of Express.js to handle routes in a RESTful manner
- Stored data using MongoDB Atlas in GeoJSON format

### 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

### 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
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## 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