HERO PARK

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WORK EXPERIENCE

Undergraduate Research Assistant – May 2018 to August 2018

University of California, Los Angeles

Studied how plants relied on cryptochromes to regulate growth and development based on Arabidopsis. Ran experiments to determine homozygosity of 100 samples and presented the results. Used Python's scipy to analyze lab results after experimentation. Worked extensively with Professor Chentao Lin and presented analysis.

PROJECTS

RI Maps (code available upon request)

A version of Google Maps for the state of Rhode Island with traffic data, shortest path, and location features.

- Used HTML5 Canvas and jQuery on the front end. Fully implemented a Java back end with A* algorithm for shortest path searching and optimized SQL queries which query for data from a SQLite3 database.
- Ability to pan, zoom, find directions with traffic considerations. Learned about concurrency and websockets.

We Know Where You Live

A simple web application that uses the location of the user to display information about it.

- Uses a geolocation API to retrieve location information about the user's IP address. Pulls an excerpt of the main Wikipedia article about the city using the Wikimedia API and displays it.
- Learned about RESTful APIs and the MEAN stack.

myMovieList (code available upon request)

A fully deployed product designed to recommend movies to users and offer them the ability to create lists of movies and share them.

- Coordinated the efforts of a four-member team. Used Github extensively to maintain code between members.
- Learned about relational SQL databases. Used AJAX extensively.
- Implemented a recommender system in Python as a team that uses matrix factorization and collaborative filtering.

ACTIVITIES

Reformed University Fellowship – February 2018 to Present

Christian university fellowship

- Praise team; 5hrs/week

SKILLS & PROFICIENCIES

Languages

- Fluent in Korean and English

Programming Languages

- Proficient: Java, Python, SQL, JavaScript

Frameworks and Technologies

- git, Spark, Freemarker, REST, Node.js

EDUCATION

Brown University | Providence, RI (Expected Graduation: Spring 2021)

Bachelor of Science (Sc.B.) in Applied Math-Computer Science