Justin Mabutas

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Education

Computer Science, B.S.   Aug 2017 - May 2021
California State University, Long Beach - GPA: 3.4   Long Beach, CA
- Relevant courses: Computer Security Principles, Data Structures and Algorithms, Computer Architecture, Operating Systems, Object Oriented Programming, Mobile App Development, Artificial Intelligence, Database Fundamentals, Distributed Systems, User Interface Design

Work Experience

System Administrator   Sep 2018 - May 2021
Sorin Lab: Computational Biochemistry & Biophysics Research Lab   Long Beach, CA
- Prepared Python and Mathematica scripts to take file data from multiple directories and produce graphs, with the results included in a publication for the Journal of Chemical Information and Modeling.
- Wrote and tested bash scripts for peer-to-peer file synchronization.
- Added features to PHP scripts for displaying hardware information and network status of servers within the network.
- Gained practical experience with Linux by using the terminal to set up network configurations of new desktops and automate system administrative tasks using job-scheduling libraries.

System Administrator & College Tech Aide   Aug 2019 - Dec 2020
Long Beach Unified School District, Lincoln Elementary   Long Beach, CA
- Maintained the school's website by updating the home page to reflect new events using HTML5 and CSS3.
- Created and maintained a data store for tracking the status, owner, and location of Chromebooks.
- Prototyped a Full-Stack web application to allow teachers to quickly create service tickets for Tech Aides.

Projects

Portfolio Website - *ReactJS*   Live Website
- Responsive website that contains more information about myself and other projects.

Android Social Media Application - *Java*   Github Repository
- Lead a team of developers to create an Android social media application following the Software Development Life Cycle methodology.
- Wrote and prepared test cases for NoSQL queries for Create, Read, Update, and Delete operations.
- Designed the layouts for multiple pages including: account creation/modification, messaging, viewing profiles, and meet-up planning.
- Added a bottom-navigation bar to make navigating between pages easier, resulting in a cleaner user interface and improved user experience.
- Integrated Google Places API to allow users to identify and select locations for meet-ups.

Peer-to-Peer File Synchronization Terminal Application - *Python*   Github Repository
- Used the ARP table to find available clients within the network to synchronize files with.
- Converts files to byte data and sends the data to the target client using sockets.
- Used threading to asynchronously handle clients and file synchronization.

Front-End Weather Web Application - *ReactJS*   Live Website
- Fetches data from the OpenWeather API to get current weather data of any city across the globe.
- Designed with a mobile-first approach and strategy to create a responsive web app using Material UI.
- Utilizes browser cookies to maintain cities being displayed after closing the website, improving user experience.

Skills

- Languages: Java, C++, C, HTML5, CSS3, JavaScript, Python, SQL, JPA
- Experience with: ReactJS, NodeJS, Material UI, Android Studio, Google Firebase, APIs, Git, Linux