

# Justin Mabutas

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<https://justinmabutas.netlify.app/>

## 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.
- Modified PHP scripts by adding features for displaying hardware information and network status of servers within the network.
- Gained practical experience with Linux by using the Command Line Interface 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 - *React*

[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.
- Designed the back-end architecture and integrated it with the front-end.
- Designed and tested the messaging module to allow users to communicate in real-time.
- Designed the layouts for multiple pages including: account creation/modification, messaging, viewing profiles, and meet-up planning.
- Integrated Google Places API to allow users to identify and select locations for meet-ups.
- Added a bottom-navigation bar to make navigating between pages easier, resulting in a cleaner user interface and improved user experience.

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 News Web Application - *React*

[Live Website](#)

- Fetches data from the Free News API to get relevant news articles based on topic.
- Designed with a mobile-first approach and strategy to create a responsive web app using Material UI.

Front-End Weather Web Application - *React*

[Live Website](#)

- Fetches data from the OpenWeather API to get current weather data of any city across the globe.
- 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