

# YSSABEL PANGILINAN

## ACADEMIC BACKGROUND

### University of California, Los Angeles - Extension

Professional Certificate, Full Stack Web  
Development, A+ average 2020

### San Diego State University

Bachelor of Science, Biology 2011-2015

## SKILLS

### Libraries/Frameworks Computer Software

- NodeJS
- ReactJS
- ExpressJS
- ChartJS
- jQuery
- Bootstrap
- Materialize
- MD Bootstrap
- Adobe
- Microsoft Office
- FlowJo
- FACSDiva
- FACSSuite
- Postman
- VS Code

### Other Skills

- AJAX
- REST APIs
- Agile Software Development
- Git Version Control
- JIRA
- Bash/Terminal
- Responsive Web Design

### Languages

- HTML
- CSS
- Javascript

### Database

- MySQL
- MongoDB
- Firebase

## GET IN TOUCH

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## PROGRAMMING PROJECTS

### MRKT - A Social Marketplace

Implemented a social media based e-commerce marketplace using MongoDB, ExpressJS, ReactJS, and NodeJS (MERN stack) which allows users to easily create listings, follow/unfollow users to view their listings, like and comment on listings, add to cart, and checkout.

- Spearheaded the project idea and plan for MRKT along with create the User Interface proposal and JIRA project management board for the sprint.
- Led a group of four to create our minimum viable product for project approval.
- Involved in both Client-Side and Server-Side by designing the RESTful backend server of the application, creating all necessary front-end components, along with design of the User Interface.
- Implemented User Authentication with Google Sign-in using OAuth, JSON Web Token, and Express-JWT and storage of User into the database.
- Created API routes (GET, POST, PUT, & DELETE) using Express and NodeJS and tested API endpoints using Postman to allow for application access of database information and the ability to create, read, update, and delete information.
- Used the GetStream.io API to integrate an In-Application live chat for users to communicate with each other.
- Utilized JIRA to assign and track specific project tasks and maintain collaboration for efficient completion of the project.
- Worked on social media User Interface using ReactJS reusable Components, CSS, Material-UI and Material Design Bootstrap for React.
- Integrated Gateway Payment System using Braintree Sandbox to generate client token and process payments.
- **Utilized:** MongoDB, ExpressJS, ReactJS, NodeJS, CSS, Heroku, Mongoose, OAuth, JSON Web Token, Lodash, Material-UI, Express-JWT, Cors, Formidable

### GitFit - Fitness Tracking Application

Designed a Fitness Application using MySQL, NodeJS, ExpressJS, Javascript, and ChartJS that allows users to create their own profile, log their weight and specific date and update their progress chart. The users are also able to delete specific datapoint and the chart will update accordingly. Along with the chart, users can also utilize the BMI and Calorie Calculators created using Javascript.

- Created the project idea for GitFit and collaborated with a group of four to carry out the completion of the application.
- Researched and implemented data visualization of weight progression with Line Chart using ChartJS which included chart installation/integration, configuration and visualization of data with different charts such as Bar, Radar, and Polar Area charts.
- Worked on both HTML and API routes (GET, POST, PUT, DELETE) using Express, Path, our ORM, and NodeJS and tested API endpoints using Postman.
- Refactored Chart data by making use of sorting algorithms to sort logged dates and array methods such as array.splice() and array.indexOf() to find and delete specific data points from the chart and update the display.
- Designed the entirety of the GitFit user interface using HTML/CSS, Javascript, jQuery, JS Plugins for animations and transitions, and Bootstrap.
- Used an object-relational mapper to simplify our interaction with our SQL database.
- Utilized Model View Controller pattern to maintain organized code.
- **Utilized:** MySQL, ExpressJS, ChartJS, NodeJS, Javascript, Heroku, JawsDB, jQuery

## Travelogged - Travel Planning Website

Developed and designed a Travel Website using Javascript, jQuery and AJAX, allowing users to simplify their travel planning process. By utilizing multiple API's, the user is able to find flight information, events nearby, popular destinations in that area, and a map to their location.

- Created inputs and submit functions which initiated multiple AJAX calls to Skyscanner, Ticketmaster and Yelp API's in order to output the necessary data to the user.
- Utilized jQuery to shape the JSON data to be easier interpreted by the user.
- Designed the entirety of the Travelogged user interface using HTML/CSS, jQuery, Javascript and Bootstrap.
- **Utilized:** HTML/CSS, AJAX, jQuery, Javascript

## WORK EXPERIENCE

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### LABORATORY SPECIALIST - FLOW CYTOMETRY

**BD Biosciences | May 2019 - Present**

- Process large volume LRS chambers for PBMC isolation to store for future assays.
- Performs immunophenotyping assays for use in all instrument training courses.
- Culturing, expansion, troubleshooting and stimulation of human cell lines.
- Assists in maintaining a detailed inventory of antibodies and PBMCs stored in freezers.
- Responsible for ordering reagents, antibodies, instrument parts and other laboratory supplies.
- Analyzed and interpreted data using FACS Diva and FACS Suite software.
- Prepared media and buffers needed for all assays.
- Maintains a detailed inventory of all instruments within the training center and is responsible for all maintenance and maintenance requests.

### RESEARCH ASSOCIATE - TRANSLATIONAL VIROLOGY

**Veteran's Medical Research Foundation | May 2017 - May 2019**

- Process human blood and clinical specimens from HIV infected donors for use in various assays.
- Extracts RNA and/or DNA from HIV positive clinical specimens such as blood plasma, seminal plasma, seminal cells, seminal fluids, and lymphocytes.
- Performs routine PCR and/or RT-PCR to generate material for use in Sanger sequencing applications.
- Collaborate with Post-Doctoral Fellows to establish and optimize the immunofluorescent staining protocol and panels.
- Performs high throughput immunophenotyping to identify T-cell activation and senescence in HIV infected donors by flow cytometry.
- Culturing, expansion, and troubleshooting of human cell lines.
- Assists in maintaining a detailed inventory of clinical specimens stored in freezers.
- Analyzed and interpreted data using FACS Diva and FlowJo Software.
- Trains new employees and undergraduates on laboratory procedures such as blood processing and DNA extractions.

### QUALITY CONTROL ASSOCIATE - FLOW CYTOMETRY

**Biolegend | Dec 2015 - April 2017**

- Tested antibodies through surface, intracellular, and multicolor staining.
- Prepared of mouse tissues to be used for staining and stimulations.
- Prepared media and buffers needed for cell culture.
- Optimized protocols to obtain mouse immune cells for use in cell culture.
- Calibration and use of the Flow Cytometer to test for the presence of specific antibodies.
- Analyzed and interpreted data using FACS Diva and FlowJo Software.