

Thomas Ly

Back End Software Engineer

[LinkedIn](#) | [Github](#) | [Portfolio](#) | thomaslyy13@gmail.com | 669-237-5389 | San Jose, CA

SKILLS

Backend Skills: Ruby | Ruby on Rails | RSpec | Express.js | Node.js | PostgreSQL | Mongoose | MongoDB | SQL | SQLite3

Frontend Skills: React | Redux | DOM manipulation | JavaScript | HTML5 | CSS3 | Webpack

Relevant Skills: Amazon Web Services (AWS) | Git | Heroku | Bash | Data Structures and Algorithms | Google Maps API | ChatGPT API | Object Oriented Programming (OOP) | Chrome Dev Tools

PROJECT EXPERIENCE

BoulderUp | Javascript | HTML | CSS | Webpack | jQuery | Google Maps API

A web application displaying data on Bay area boulder locations and levels of difficulty.

[GitHub](#) | [Live](#)

- Bullet point about how I filtered the data
- Integrated ChartJs external library to visualize bouldering data and provide users controls to filter data.
- Utilized Google Maps API and custom location markers to display the exact location of climbs based on filters

NomadBnB | Ruby on Rails | PostgreSQL | Amazon S3 | React | Redux | HTML | CSS | Webpack | Google Maps API

An Airbnb Clone allowing users to make reservations and reviews at rental locations.

[GitHub](#) | [Live](#)

- Implemented RESTful routes on a Rails backend to enable CRUD functionality for reservations and reviews, allowing efficient interactions with the PostgreSQL database
- Utilized Redux for global state management, to exchange data with React components and eliminate excessive data fetching by reducing un-needed asynchronous requests.
- Integrated Active Record queries in conjunction with OOP practices to extend the reservations model class with custom instance methods.

Don'trip | Node.js | Express.js | React | Redux | MongoDB | HTML | CSS | Heroku | ChatGPT API

A web application allowing users to plan a vacation itinerary with the help of ChatGPT.

[GitHub](#) | [Live](#)

- Collaborated with three software developers as the flex lead, supporting both backend and frontend using Git workflow to avoid merge conflicts and create an efficient collaborative environment.
- Incorporated ChatGPT API to receive requests for real time chat, creating an interactive User Experience (UX)
- Integrated Express.js as a RESTful API connected to MongoDB to manage user data and trips CRUD features, also utilizing Mongoose ODM to create efficient model validations

WORK EXPERIENCE

Yerba Buena High School | *Avid Tutor* | San Jose, CA

August 2019 – Present

- Created targeted Algebra 1 lesson plans to help over 50 students understand the required material.
- Mentored over 100 students to identify and achieve goals to improve grades and stay on track to graduate high school with an approximate 95% graduation rate.
- Partnered with teachers to create an optimal learning environment by adding structure and organization, leading to an average 20% grade increase.

CK Mathletes | *Math Enrichment Teacher* | Los Altos, CA

August 2022 – March 2023

- Designed a curriculum to teach creative mathematical problem solving for 100+ students in 6 schools.
- Improved test results by 50% per semester by holding weekly 1-on-1 student meetings to discuss progress and future improvement.

EDUCATION

App Academy | 1000-hour Full Stack Web Development Course

July 2023

- Focus on creative problem solving, test-driven development (TDD) and daily pairboarding. Along with general problem solving, we learned and utilized Ruby on Rails, Node.js and Express.js to create backend server-side api endpoints and React.js to control the frontend for our full stack web applications.

Evergreen Valley College | **Associate's degree in Communication Studies**

May 2022

