

# Thomas Ly

## Full Stack Software Engineer

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## SKILLS

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**Frontend Skills:** JavaScript | React | Redux | HTML5 | CSS3 | VanillaJS | Webpack | Node.js

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

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

## PROJECT EXPERIENCE

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**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](#)

- Integrated ChartJs external library to visualize bouldering data and provide users controls to filter data.
- Utilized Google Maps API to display the exact location of climbs based on filters.

**NomadBnB** | React | Redux | Ruby on Rails | Javascript | PostgreSQL | HTML | CSS | Webpack | Amazon S3 | 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 implement CRUD functionality for reservations and reviews, allowing efficient interactions with the PostgreSQL database
- Utilized Redux for global state management, to pass in data into components and create a single page application, improving efficiency by eliminating rerendering
- Integrated Active Record queries and memoization to optimize data filtering and reduce data fetching runtimes.

**Don'trip** | React | Redux | Javascript | MongoDB | Express.js | Node.js | HTML | CSS | Heroku | Chat Gpt 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 groups CRUD features.

## WORK EXPERIENCE

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**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.

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

**August 2019 – March 2023**

- 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.

## EDUCATION

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**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, NodeJS and ExpressJS 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**