

# Thomas Ly

Full Stack Software Engineer

[LinkedIn](#) \ [Github](#) \ [Portfolio](#) \ [thomasly13@gmail.com](mailto:thomasly13@gmail.com) \ 669-237-5389 \ San Jose, CA

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## Technical 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 difficulties.**

[Github](#) \ [Live](#)

- Integrated ChartJs external library to visualize bouldering data and provide users controls to filter data to their liking.
- Utilized Google Maps Api to interact with ChartJS to show specific data in accordance to user filters.

**NomadBnB** | React | Redux | Ruby on Rails | Javascript | PostgreSQL | HTML | CSS | Webpack | Amazon S3 | Heroku | Google Maps Api

**An Airbnb Clone, allows users to make reservations and reviews at rental locations.**

[Github](#) \ [Live](#)

- Using Ruby on Rails as a RESTful api connected to a PostgreSQL database, I implemented reviews and reservations CRUD features.
- Utilized React to organize my frontend into reusable components and Redux to control changes of state to pass in data into those components and create a single page application..
- 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 | Webpack | Heroku | Chat Gpt Api

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

[Github](#) \ [Live](#)

- Collaborated with three other software developers as the flex lead, supporting both backend and frontend, by working on features and being the primary debugger.
- Incorporated Chat Gpt API to receive requests from users and give interactive real time responses.
- Utilized React and CSS to create a highly interactive user experience.
- Integrated Express.js as a RESTful API connected to MongoDB to manage

## WORK EXPERIENCE

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

**August 2022 – March 2023**

- Created curriculum to teach creative mathematical problem solving, in 6 schools, taught to over 100 students.
- Cultivated student success via weekly 1-on-1 meetings to discuss progress and future improvement
- Consulted parents/guardians to maximize learning opportunities and improve students' skills at home.

**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** \ Full Stack Web Development

**Completed 07/2023**

- Full-stack software engineering program, where I learned how to use languages and programs such as HTML, CSS, JavaScript, Ruby on Rails, React, Express.js and SQL. The program's curriculum also trained skills such as creative problem solving and collaboration.