

# Ngoc Thi Ly



A highly analytical full-stack software engineer  
who loves to code and build web applications

San Jose, CA  
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## SKILLS

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Ruby on Rails, React, Redux, JavaScript / ES6+, Python, C++, HTML5, CSS3 / SCSS / Sass, MongoDB, PostgreSQL, JQuery, Node.js, Express, Git / Github, MATLAB, Mathematica

## PROJECTS

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**Proofs Line** - A full-stack, single-page web app where users can ask, answer, and vote questions [Live Site](#) | [GitHub](#)

*Ruby on Rails, React, Redux, JavaScript, HTML5, CSS3, PostgreSQL, Webpack*

- Incorporated pagination, Reactjs Popup, HTML parser, and text editor modals for CRUD actions with questions, answers and downvotes / upvotes to enhance UX and UI
- Designed a search feature that pulls results from PostgreSQL database allowing users to filter by keyword
- Leveraged Redux to optimize the information management of React components, resulting in DRY readable code and increasing scalability of a single page application

**huddleUP** - A MERN stack app where users can host and sign up for sporting events [Live Site](#) | [GitHub](#)

*MongoDB, Express, React, JavaScript, Node, HTML5, CSS3, Figma*

- Employed CSS3 Flexbox, z-index, and React-Slick for an appealing and responsive layout
- Collaborated with team members using Git workflow and Slack to achieve features in a timely manner, while switching between both frontend and backend
- Built a RESTful API between client and MongoDB server to allow for consistent client-server interaction

**Pacman** - PAC-MAN built using vanilla JavaScript [Live Site](#) | [GitHub](#)

*JavaScript, HTML5, CSS3, Webpack, Figma*

- Implemented HTML Canvas to dynamically render 2D shapes and bitmap images to create visually compelling background and game characters
- Attained a communication network with setInterval(), collision detection, and custom functions between the main character and surrounding features for an interactive gameplay

## EXPERIENCE

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**Satellite**, New York, NY - *Backend Software Developer Intern*

SEPT 2020 - CURRENT

- Refined and expanded the business' product requirements documents in users' authentication, user profile, AWS S3, Google reCAPTCHA API, Giphy API, and chat feature
- Reinforced the backend beta API application using gem Devise and JWT for Users' authentication

**Dryvac Company**, San Jose, CA - *Contract Software Developer*

JUL 2020 - SEPT 2020

- Developed a Python program to extract text from PDF and Word documents to Excel reducing tracking and inputting records by >90%
- Redesigned the Company's website using React, HTML5, and CSS3 to transform it to a more modern and sleek appearance (in development)

**UC Irvine Dept. of Radiology**, Irvine, CA - *Student Researcher*

SEPT 2016 - DEC 2016

- Improved 3-D image reconstruction and registration using MATLAB for smoother user experience and clearer imaging to detect health complications earlier
- Applied my knowledge of human anatomy, medical terminology, linear algebra, mathematical modeling and computation to create and improve efficiency of code

## EDUCATION

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**App Academy**, San Francisco, CA - *Full-Stack Web Development*

FEB 2020 - MAY 2020

**UC Irvine**, Irvine, CA - *B.S. in Mathematics and B.A. in Psychology*

SEPT 2015 - JUN 2018