

# Carl Molina

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## EXPERIENCE

### RITHM SCHOOL

Full Stack Engineer Intern

Feb 2024

Remote

- Built Numbers API mobile app prototype with React Native to allow app users to generate random and specific fact data
- Integrated testing home screen features with Selenium to model test driven development based on user experience
- Added mobile-specific interactions from libraries like Expo Accelerometer to generate facts on individual mobile events
- Utilized Figma to create mockups of homepage and mobile app designs and used Sass to incorporate dynamic styling

### KETT ENGINEERING

Field Operator Specialist III

May 2018 - May 2023

Santa Clara, CA

- Served as Calibrations and Sensor Health DRI for autonomous vehicle operations in a dynamically-changing, fast-paced onsite setting w/ a variety of high-value clients.
- Managed a team of driver-operators, facilitating optimal use of labor allocation, following SOPs, and encouraging best practices, resulting in higher team retention rates, increased overall technical/product knowledge and productivity by 150%, and decreased human operator error to less than 10%.
- Consistently completed successful high-volume calibration sprints in advance of deadlines, delivering and meeting company/client goals, and pushing overall project readiness ahead of schedule in high-impact, high-profile scenarios. Increased average output of full systems calibration cycles from 2 vehicles/day to 4 vehicles/day w/ healthy, accurate, repeatable merges.
- Collaborated closely w/ engineers, project managers, and external stakeholders to expedite test requests, research and development, and internal program processes including onboarding, training, and cross-team communication.
- Lead all phases of calibration and sensor health operations from drafting SOPs, planning and scheduling, build, test request, deployment, testing, ingestion, metadata, annotations, and data review.

### OCCUPATIONAL TRAINING INSTITUTE

CompTechS Intern

Dec 2017 - Apr 2018

Cupertino, CA

- Refurbished donated, used computers to redistribute to underprivileged students. Installed software, inspected and tested each computer before approval to distribute. Collaborated w/ interns and taught new interns basic installation.

## SKILLS

### Programming Languages

JavaScript, Python, TypeScript, SQL, HTML5, CSS3, SCSS, Markdown

### Technologies

React, React Native, Flask, Node, Express, S3, PostgreSQL, Bootstrap, Jest, Vite, jQuery, Jira, Git, Selenium

## NOTABLE PROJECTS

[jobly.carlmolina.com](http://jobly.carlmolina.com)

Jan 2024 - Feb 2024

- Full-stack web application where companies can post available jobs. Signed-in users can browse and apply to new jobs.
- Frontend/backend using React and Express frameworks. Uses jsonschema and JWT for backend authentication. Bcrypt for password hashing and encryption. User token stored in localStorage. React state management and context.

[pixly.carlmolina.com](http://pixly.carlmolina.com)

Jan 2024 - Feb 2024

- Full-stack image application that lets users upload image files, view other images, filter search, and view EXIF metadata.
- AWS S3 to store/retrieve image files. Flask (Python) to serve HTML w/ Jinja templating and jQuery for DOM manipulation. Pillow for image resizing. Flask-SQLAlchemy as ORM for PostgreSQL database. Exifread to extract EXIF metadata.

[plantapp.carlmolina.com](http://plantapp.carlmolina.com)

Dec 2023

- Plant search site that lets users search plants and view specific care details per plant. Signed-in users can bookmark plants. Additional tech: Perenual API, Flask, Jinja, SQLAlchemy, JS, jQuery, Fetch, Axios, WtForm, Flask Session, Bcrypt.

[flaskcafe.carlmolina.com](http://flaskcafe.carlmolina.com)

Dec 2023

- Cafe search site to browse cafes. Admin users can add cafes. Additional tech: MapQuest API, Flask Session, SQLAlchemy

## EDUCATION

### Rithm School Full Stack Software Engineer Program

Mar 2024

Associate of Science in Computer Science | De Anza College | Cupertino, CA

Dec 2019

- GPA: 3.79, Developers Guild, CompTechS Intern, Phi Theta Kappa Honor Society

Bachelor of Arts in Screenwriting | Loyola Marymount University | Los Angeles, CA

May 2016

- GPA: 3.63, Cum Laude, Dean's List, Asian Pacific Student Services Program Assistant, EIS Program Assistant