Matthew Lao

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LinkedIn: linkedin.com/in/laomatt   **GitHub:** github.com/laomatt   **Portfolio:** laomatt.github.io

LANGUAGES AND TECHNOLOGIES

- **Proficient:** Ruby, Rails, PHP, LAMP, Lumen, Laravel, Flight, JavaScript, jQuery, AJAX, SQL, MySQL, AWS (S3, SQS, SMS), HTML5, CSS3, Sass, HAML, ERB, Git, Shell Scripting, TDD, RSpec, Sinatra Backbone.js, Factory_Girl, Heroku, Carrierwave, Oauth, Omniauth, Easypost API, Sendgrid API
- **Exposure:** Java, Android SDK, Python, PHP, AngularJS, Konva.js, MongoDB, MATLAB, XML, React js, MongoDB, Firebase, c#, Handlebars.js, Unity, Node.js, AWS, MEAN, Docker

PROFESSIONAL EXPERIENCE

Parkside Lending | Full-Stack Software Engineer | San Francisco, CA   2016 - 2018

- Designed and implemented 2FA (two factor authentication) system for user logins in addition to refactoring the company authentication service, making New York Loans possible resulting in a projected 10% increase in business overall.
- Microservice: MI service, Appraisal service: Introduced a ruby application to the company app environment, that acts as a filtering and validating service to interact with multiple mortgage insurance services.
- Created a script in Ruby to periodically migrate and scrub sensitive company data into a common developer friendly staging database that is up to date with all the latest records, but compressed with a limited number of records in each table, and all of their cascading necessary records in other tables with a foreign key.
- Created a new screen in our customer portal for sales personnel to quickly and efficiently access over 100 Loan documents as needed.

Corefact Corporation | Full-Stack Software Engineer | Hayward, CA   2015 - 2016

- Generated 600+ active users in < 1 week after launch through constructing ListAssist, a CMS for real estate agents to develop single property listing pages, utilizing Ruby on Rails, JavaScript and jQuery.
- Improved time for agents to launch housing sites by 1.5X with enhancements to UI/UX of marketing tool with HTML5, CSS3 and Sass to eliminate unnecessary page navigation.
- Reduced page load speed by >25% through optimizing queries to MySQL DB on Ruby on Rails RESTful API.
- Followed TDD to achieve 75% coverage of ListAssist codebase writing 25+ unit tests in RSpec and Factory_Girl.
- Saved company ~$275,000 annually by developing optimization tools to streamline warehouse processes of receiving and shipping orders by 20% using Easypost API integrated into Ruby on Rails backend.
- Saved an average of ~5 minutes per order in terms of production and QA resulting in a ~20% increase in order volume.
- Developed jQuery library for slide down functionality and looping through arrays with specific namespace variable which resulted in ~30% reduction of front-end JavaScript codebase.
- Wrote Git specific shell scripts to conform to branching naming conventions and commit message structure.

RECENT PROJECTS

SDCC Tickets| Software Engineer | live | code   2017

Organization and communication platform used to coordinate and organize ticket buying and waiting groups for San Diego Comic Con events.

- Constructed front-end presentation of group rooms and chat rooms utilizing jQuery, HTML, CSS and web sockets.
- Engineered serverside management of data.
- Communicated with Friend Of Comic Con forum administrators to meet their needs in terms of validating admins and members and conforming to their pre existing system.

Daily Quicks | Software Engineer | live | code   2016

Skill building tool for artists to hone their technique through quick studies by providing reference images in sets of poses.

- Constructed front-end presentation of images utilizing jQuery and Backbone for a customizable slideshow.
- Engineered serverside management of slides with cloud AWS S3 storage and Sidekiq for picture upload.

- Designed UI/UX for slideshow drawing experience with picture randomization enabled with Ruby and AJAX.

ListAssist | Software Engineer | [live](#)   2015

Marketing platform for real estate agents to promote property listings with marketing products including a single property website

- Created server and client side functionality of the single property websites including sign ups, creating and editing, resulting in 600 + websites produced during the first week of launch.
- Reduced property website page load times by ~5 seconds by using AJAX calls to asynchronously make calls to APIs and caching those results in local database, while optimizing pictures on the websites using the rmagick gem, setting them up to be served over AWS simple storage service (s3) and running minifying agents on all called JS and CSS files.

DropBlox | Software Engineer | [live](#) | [code](#)   2015

"Tetris-style" in-browser arcade game where players match consecutive numbers to form chains to eliminate blocks.

- Utilized JavaScript OOP best practices to develop game logic, animations and score keeping functionality.

EDUCATION
City College of San Francisco, *Android Application Certification*   2014
Academy of Art University, *B.A. Illustration*   2010
University of California, Davis, *B.A. Math*   2008

VOLUNTEER WORK
Girl Develop It, *Software Engineer/Mentor*   2015