

# Hanqing Chen

## Software Engineer

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## SKILLS

Node.js, Ruby/Rails, PostgreSQL, Docker, AWS, React.js, Redux.js, Angular.js, HTML5, CSS

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## PROFESSIONAL EXPERIENCE

### LOB.com

Senior Software Engineer  
Software Engineer

San Francisco, CA

Aug 2021 – Present

Nov 2019 – Aug 2021

- Overhauled Lob's billing and usage recognition code, decreasing the time taken to run monthly billing by ~30%. Spun off the relevant logic from the monolithic model to their own services – built upon an event-driven system with Amazon SQS – leading to better stability and insight during invoice generation.
- Planned and executed upgrades to Lob's SAAS subscription models, decreasing operational overhead for the finance and customer teams.
- Revamped Lob's billing models into a tiered system with different scopes, allowing finance to separate usages into different invoices and payment terms. This project secured the contract of three major Lob customers, who are now responsible for over 50% of Lob's annual recurring revenue.
- Developed and maintained custom tooling in Lob's internal tools app that managed a customer's subscriptions, billing information, and invoices.

### Vitagene (now 1Health.io)

Software Engineer

San Francisco, CA

Oct 2018 – Mar 2019

- Eliminated excessive API calls between web page transitions by leveraging Redux, reducing users' load times by 80%.
- Overhauled three core Vitagene website components – constituting over 50% of user health reports – using React/Redux and Styled Components, leading to about 30% higher user retention rates.
- Transitioned Vitagene's front end framework from Angular.js to React.js and Redux.js with the engineering team.
- Collaborated with the Science team to update nutrition algorithms and report contents based on new findings and discoveries.

### PacGenomics Inc.

Staff Scientist

Los Angeles, CA

Nov 2015 – June 2018

- Implemented the UI/UX portions of the physicians' web portal, including designing and testing new features, such as document preview and upload, streamlining the app's interface.
  - Programmed automated liquid handling device with protocols to run experiments, which reduced assay runtimes by up to 50%. Additionally, instructed co-workers on the operation of the liquid handling devices.
  - Corrected inefficiencies in our testing pipeline that reduced the turnaround time for rush cases by 8 hours (50%).
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## PROJECTS

[Flipr](#) (Ruby / Rails, PostgreSQL, AWS, JavaScript (ES6), React, Redux, HTML5, SASS) [GitHub](#)

Single-paged photo-sharing web application that allows users to upload photos, and curate their own albums. Features user authentication and responsive photo displays.

- Integrated Amazon S3 cloud storage solution with PostgreSQL database backend using ActiveStorage queries, resulting in a smoother user experience and better application scalability in the future.

[Super Smash Browser](#) (JavaScript, HTML5 Canvas, CSS, Adobe Illustrator) [GitHub](#)

A chrome extension that allows users to selectively hide elements in a webpage. Users can choose different animations that accompanies the actions.

- Manipulated JavaScript DOM to select and interact with objects displayed on a webpage. Created new HTML5 canvas elements on top of said DOM objects to render destruction animations.
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## EDUCATION

University of California, Berkeley

Bachelor of Science in Molecular/Cell Biology (Concentration: Infectious Diseases)

Berkeley, CA

Class of 2015