




# Wei Tung Chen

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## WORK EXPERIENCE

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### Redfin (Seattle, WA) - Software Engineer

Aug 2020 - Present

#### SLO (Service Level Objective) Dashboard

- ❖ Led the frontend development for Redfin's first SLO Dashboard from scratch, and since release, it has been used by every team at Redfin to visualize and tune their features' SLOs.
- ❖ Developed reusable React components and Reflux stores to propagate dynamic SLO data to datatables and graphs, while handling user interactions with the dashboard such as form submission and table filtering.
- ❖ Utilized asynchronous data calls and request versioning to speed up the SLO dashboard page load by 7x, and drastically improved its usability as more SLOs were getting onboarded.
- ❖ Implemented a code design pattern for managing nested React forms, in an effort to break down responsibilities of the main React store into multiple single-purpose ones and increase code readability.
- ❖ Iterated on user/engineer feedbacks after the release to stabilize the platform and enhance its accessibility to all users.

#### SLO Ingestion Pipeline

- ❖ Independently investigated into a missing data issue with the SLO data ingestion pipeline, and the solution permanently fixed 30 problematic SLOs and increased ingestion accuracy for many others.
- ❖ Developed a data verification job in JavaScript that runs alongside the SLO data ingestion job, as it periodically verifies, reports, and re-ingests if any missing data is detected in the pipeline.

#### Elasticsearch (Logging Platform) Disk Quota Program

- ❖ Designed a Python program that automatically controls disk usage for each logging service, saving hours of oncall time each week trying to prevent machines from running out of disk.
- ❖ Developed Python scripts to aggregate disk usage data from Elasticsearch API, auto-delete log indices based on the quota configuration, and report important metrics to monitor the disk health for each service and the logging platform.

### Redfin (Seattle, WA) - Software Engineering Intern

Jun - Sep 2019

- ❖ Built a SSH-certificate system that replaced hardcoded password with a secure SSH access to test machines, including various levels of access restriction and access log history.
- ❖ Developed scripts for automating managerial approval and access granting process, through calling Slack APIs and auto-generating SSH certificates.

### Lacework (Mountain View, CA) - Software Engineering Intern

Jul - Sep 2017

- ❖ Built the first testing framework for Lacework engineers to automatically test and validate backend API calls against the db schema, all through a simple webpage that allows engineers to run tests with customizations on different test scopes, parameters, and testing frequency.

## PERSONAL PROJECTS

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### ChessVibe - A Mobile Chess App

Mar 2020 - May 2021

- ❖ Developed a multiplayer chess app with React Native, by incrementally building out reusable mobile UI components.
- ❖ Developed a backend service for user authentication and synchronizing live match data with Firebase and the app.
- ❖ Iterated on the UI/UX designs by collecting feedback from users, adjusting the color schemes for easier reading, simplifying app navigations, and prioritizing screen space for the important UI components.

## SKILLS

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**Languages & Others** JavaScript, HTML, CSS, Python, Java, C++, Bash Script, SQL

**Frameworks & Tools** React, React Native, Git, Node.JS, Puppet, Jekyll

**Areas of Familiarity** Full Stack Development, DevOps, Monitoring, SLO, Scripting, Linux, Cloud

