

# Thomas Simko

Collaborative, Data-Driven Fullstack Software Engineer

[tjsimko@gmail.com](mailto:tjsimko@gmail.com)

[thomassimko.com](http://thomassimko.com)

[github.com/thomassimko](https://github.com/thomassimko)

[linkedin.com/in/thomassimko](https://linkedin.com/in/thomassimko)

## EXPERIENCE

### Study.com, Mountain View, CA — *Software Engineer (Fullstack)*

JULY 2019 - PRESENT

- Implemented frontend and backend systems in a collaborative, cross-functional scrum team using AngularJS, Java Spring, Ionic, and MySQL
- Architected and developed in-app payment systems to achieve iOS App Store compliance
- Cultivated workflows that interface with Wistia and AWS APIs to allow contractors to upload, review, and publish videos in our internal content-management system
- Optimized pages for SEO and improved Google Lighthouse scores by adding schema metadata, reducing page load times, and meeting web accessibility standards

### MapR, San Jose, CA — *DevOps Intern*

JUNE 2017 - SEPTEMBER 2017

- Developed dynamic, internal web pages using Typescript, React, and Elasticsearch
- Increased internal visibility into automated test failures by analyzing test data queried from Jenkins and presenting it on internal dashboards

### MapR, San Jose, CA — *IT Intern*

AUGUST 2015 - SEPTEMBER 2015, JUNE 2016 - SEPTEMBER 2016

## EDUCATION

### California Polytechnic State University, San Luis Obsipo

SEPTEMBER 2014 - JUNE 2019

*Master's in Computer Science — GPA: 4.0*

*Bachelor of Science in Software Engineering — GPA: 3.72*

## PROJECTS

### Mov Matcher — *ReactJS, Electron, Elasticsearch, Tailwind*

- Renames movie files to custom formats using fuzzy matching in Elasticsearch with data from TMDB API

### Sensor App — *ReactJS, Ionic, Firestore*

- Cross-platform mobile app which subscribes to real-time updates from a variety of sensors using Google Firestore with threshold notifications

### Tele-operated Strawberry Harvester — *ReactJS, AWS, Java Spring, Typescript*

- Served as the front-end technical lead to develop a platform to monitor strawberry growth and increase collection yield through the analysis of crop health data and the remote operation of strawberry harvesters

### Master's Thesis in Code Clone Detection via Program Dependence Graphs — *Java*

- Developed an original methodology to detect code clones by performing graph comparisons on generated program dependence graphs to target code that is semantically different but has similar functionality