


# Wei Tung

# Chen

Software Developer

## CONTACT

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 (669) 225-4467

## WEBSITES

 weitungchen.com

 github.com/lleeeochen

 linkedin.com/in/weitungchen

## LANGUAGES

JavaScript 

Python 

Java 

C++ 

Bash Script 

SQL 

Ruby 

Android 

Node.JS 

## TOOLS & FRAMEWORKS

React 

Git 

SSH 

Slack API 

Jenkins 

Puppet 

Docker 

Rails 

## EDUCATION

### University of California, Santa Barbara

Computer Science, B.S.

Data Structure and Algorithms, Automata and Formal Language, Operating Systems  
Distributed Systems, Database Systems, Computer Networks, Undergrad Tutoring

## WORK EXPERIENCE

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

Jun – Sep 2019

Redesigned Redfin's production machine access system from a labor-intensive, unsecure architecture to a new system that has proven to be more secure, scalable, monitorable, and 90% more efficient.

**Efficient:** Replaced the manual access-granting workflow (requiring IT ticketing and code changes from engineering teams) with an automated system that takes access request submissions, Slacks for approval, and grants user access by auto-configuring SSH certificate and proxyjump on user machine in seconds.

**Secure:** Leveraged SSH certificate's principal name matching technique to restrict user access to a subset of machines, which reduced the security risk of exposing all machines at once to unwanted hands.

**Monitorable:** Tracked access footprints by assigning each certificate with a serial number mapped to an access request record in database. SSH can also be configured to revoke certificates with serial numbers.

**Planning:** Wrote a technical doc that outlines current system's problems, implementation strategies, and a plan to test and rollout safely. Worked with technical leads to weigh the pros and cons of different strategies for an initial plan, and gave them periodic product updates later on for more feedback.

### Software Engineering Intern at ProDIGIQ (Thousand Oaks, CA)

Jun – Sep 2018

Developed a web tool that allows engineers to visually draw polygon markups on airport maps instead of manually crunching latlng coordinates into the database.

Led the development of the React Native app in an effort to reduce the cost of developing cross-platform mobile applications.

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

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.

### Web Developer at UCSB Marine Science (Santa Barbara, CA)

Apr 2019 – Present

Modernized department website with newer web tools to make the website cleaner and more maintainable.

## RELEVANT PROJECTS

### React Native Rideshare Class Project – Gaucho Rides

Apr – Jun 2018

Designed and developed a ridesharing app that uses a map-based search algorithm to find matching rides for students. A peer rating system is used to provide safety for the student drivers and passengers.

### Data Science Club Project – Course Enrollment Analysis

Jan – Sep 2018

Built a website that graphs out enrollment rates over the course registration period and helps college freshmen identify popular courses, so they can pick them with priority and be on track to graduating in time.