

# Zhenhua Tan

howardtan.netlify.app | chenzhiyin1988@gmail.com | 415.509.8058

## EDUCATION

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

BS IN COMPUTER SCIENCE  
Jun 2020 | Los Angeles, CA

### CITY COLLEGE OF SAN FRANCISCO

AS IN COMPUTER SCIENCE  
Jun 2018 | San Francisco, CA  
Major GPA: 3.78 / 4.0

## LINKS

Github:// [wahjay](#)  
LinkedIn:// [howardtan](#)  
Portfolio:// [howardtan](#)

## COURSEWORK

Software Engineering  
Operating Systems  
Computer Systems Architecture  
Compiler Construction  
Intro to Artificial Intelligence  
Intro to Machine Learning  
Database Systems  
Web Application  
Computer Network Fundamentals

## SKILLS

### PROGRAMMING

Over 5000 lines:

C++ • Javascript

Over 2000 lines:

C • Java • CSS • Ruby

Familiar:

React • Node.js • GraphQL • Express •  
MongoDB • MySQL • Ruby on Rails

Tools used:

Firebase • Gerrit • Netlify • Heroku

## PROJECT

### DOWNTIME MONITOR | REACT, NODE.JS, GRAPHQL, EXPRESS, MONGODB

Feb 2021 | Personal Project

- Created API endpoints using Express and GraphQL
- Implemented monitoring with a cron job and GraphQL polling query
- Implemented website downtime report generation with TOAST UI
- Implemented alert triggers via email with SendGrid Email API

### SORTING ALGORITHMS VISUALIZER | REACT

Oct 2020 | Personal Project

- Implemented a React web app to visualize some sorting algorithms

### REACT SPOTIFY CLONE | REACT, SPOTIFY API, FIREBASE

Sep 2020 | Personal Project

- Created web interface using Material UI and CSS
- Made use of Spotify public API to fetch user playlists to populate the frontend
- Implemented a playback slider and volume slider to modify the currently playing song state
- Managed and shared users data among all the components using React Context

### HTTP SERVER | C++, GERRIT, GOOGLE CLOUD

May 2020 | College Project

- Performed peer code reviews on Gerrit
- Wrote testable, readable and maintainable code
- Implemented proxy caching for the server
- Designed thoughtful API for response and request classes

### PINTOS OPERATING SYSTEM | C LANGUAGE

Aug 2019 | College Project

- Implemented interprocess communication, synchronization, scheduling and fast file system
- Collaborated with a team of four to implement the system

## HOBBIES

Basketball • Skiing • Hiking • Video games