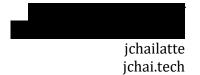
# Jonathan Chai

Entry Level Software Engineer

Phone Number: Email: LinkedIn | GitHub: Website:



#### **EDUCATION**

**University of Southern California**, Viterbi School of Engineering *Bachelor of Science in Computer Science* 

January 2018 – December 2019

Bachelor of Science in Computer Science

### **WORK EXPERIENCE**

**Booth Technologies** 

September 2020-Present

Freelance Web Developer

React, Node, MongoDB, JavaScript, Heroku

- Currently rebuilding their mobile web application for scalability when new businesses are onboarded
  - o Converting their SPA to utilize current React practices such as Hooks (from classes)
  - o Redesigning their endpoints and MongoDB database structure for scalability and security

**Tailored Brands** 

July 2019 - August 2019

Software Engineering Intern Spring Boot, Java, React, MongoDB, MySQL, H2 Database, Gradle, Swagger

- Devised a script to insert 2,000 different suit measurements into a MongoDB database along with a CRUD portal for the client to modify the suit measurements as needed
- Designed and implemented an in-house end-to-end solution which allowed tailors to input a suit ID and alteration values which were then computed into final values for a custom suit
- Redesigned a portion of a monolithic tuxedo rental service to a microservice architecture
  - o Migrated the H2 database to MySQL utilizing Liquibase to transition hosting to the cloud
  - o Using Swagger Codegen, generated a basic microservice framework based off the rental service

#### **SKILLS**

• Languages: C++, Java, JavaScript (ES6), HTML5/CSS, Bash

• Frameworks/Libraries: Spring Boot, React.js, Next.js, Material UI, Node.js, jQuery, Bootstrap

DevOps: Docker, Nginx, Git, Linux, Digital Ocean

Databases: MySQL, MongoDB, H2 Database

Other: LaTeX, Postman, Figma, Unity, Swagger, WordPress

#### **PROJECTS**

# **CS@SC Summer Camps**

September 2019 – December 2019

Senior Capstone Project (summercamp.usc.edu)

WordPress, Java, JavaScript, MySQL, Maven, Docker

- Modernized the client's website and code base from 2016 with two others to current best practices
  - Changed the repository structure to utilize DAO and DTO patterns while fixing various queries
    - o Wrote queries and processed data for new features such as attendance and statistics
- Shifted the website's hosting from the client's personal server to a VM hosted by the school
  - Using a VPN, a secure SFTP connection was established over the school's firewall to migrate source code and database dumps while also allowing the editing of PHP files

# Twitch Stonks [sic]

October 2019 - October 2019

TwitchCon Hackathon 2019

React, Java, JavaScript, MySQL, Spring, Python, Twitch API

- Created a Twitch extension with two others to allow viewers to play stocks utilizing emotes
  - o Processed data from a Twitch chat scraper to generate stock prices within a virtual economy using a moving average of the past 100 lines of chat where prices correlate to frequency of use
  - o Handled the database CRUD operations regarding transactions and user portfolios

# **ACTIVITIES**

**USC Varsity Esports, Player/Assistant Team Manager** 

September 2018 – December 2019

- Participated in the creation of the first official Varsity Esports team as both a player and manager
- Managed player and management communications and relations, particularly on the players' side
- Cooperated with USC and sponsors to run events such as USC's Conquest and Game Expo