Jonathan Chai
Entry Level Software Engineer

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EDUCATION

University of Southern California, Viterbi School of Engineering   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
  - Converting their SPA to utilize current React practices such as Hooks (from classes)
  - 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
  - Migrated the H2 database to MySQL utilizing Liquibase to transition hosting to the cloud
  - 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
  - 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
  - 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
  - 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