

Justin Chow

Software Engineering | Web Development

Greater Seattle, WA

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SKILLS

Front End

JavaScript
HTML
CSS
React
jQuery
Webpack / Babel

Back End

Node.js
Express
Mongoose/MongoDB
MySQL
PostgreSQL
NGINX
Java

Testing / Deployment

Jest
Testing Library
Docker + DockerHub
CircleCI
Amazon Web Services EC2
New Relic
LoaderIO

Utilities

Windows Subsystem for Linux
Git
IBM Cloud

EDUCATION

Bachelor's of Science:

General Biology

University of Washington

Seattle, WA

Graduated 2020

Advanced Software

Engineering Immersive

Hack Reactor / Galvanize

Seattle, WA

Graduated 2021

APPLICATIONS

Front End | github.com/jc-frc725/understock_carousel

Furniture retail item detail page designed with a service-oriented architecture

- Utilized **React** to build interactive product detail list from scratch
- Used **Jest** and **React Testing Library** to create unit and integrated tests with over 80% coverage
- Deployed onto an **Amazon Web Services EC2** instance as a containerized **Docker** app
- Optimized for quick page load times using production-mode **Webpack** and **Babel** compression

System Design | github.com/jc-frc725/tripsters_bookings

Upgraded legacy property rental application for increased user traffic

- Replaced legacy database with **Node**-generated database of 10 million primary records and properties
- Optimized database using **PostgreSQL** indexing and relational tables for speedier data retrieval
- Horizontally scaled service using multiple **AWS EC2** nodes and **NGINX** load balancing, improving client request speeds by ~100 ms and requests-per-second from 100 rps to over 2000 rps

Text-to-Speech Web Application | github.com/jc-frc725/pep-talker

Web application that can save, load and read a bank of user-submitted data

- Applied **material design** using Materialize CSS framework for user-friendly interface
- Integrated **IBM Cloud's Text-to-Speech** software package for clear and accurate reading of user text input
- Built back end database using **MongoDB** to simplify input data format and retrieval to front end via **RESTful API**

PROFESSIONAL EXPERIENCE

Project Management Intern | C21 @ University of Washington

Seattle, WA | 2020

- Assisted with brainstorming and drafting of solution addressing low enrollment numbers for UW Early Fall Start 2020
- Collaborated with 40+ interns to design and operate online outreach for increasing EFS enrollment
- Contacted over 100 incoming freshman students interested in UW informational sessions
- Promoted to Team Coordinator during outreach, managing team check-ins/reports

Pharmacy Assistant | Albertsons Companies

Kent, WA | 2017 - 2020

- Managed patient data, medications, and insurance, contacting in-branch and outside pharmacies and medical offices
- Resolved prescription issues and claims for over 100 patients