

Jason Chau

LOS ANGELES, CA · SOFTWARE ENGINEER

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Education

University of California, San Diego

B.S. IN MATHEMATICS AND COMPUTER SCIENCE

La Jolla, California

Sept. 2016 - Mar. 2019

Skills

Programming Languages	Java · JavaScript · TypeScript · Python · Bash
Technologies/Tools	Git · PostgreSQL · JUnit · Hibernate · Docker · JDBC · Liquibase · Log4J
Frameworks/Libraries	Spring MVC · Angular · Spring Data JPA · Spring Security
Operating Systems	MacOS · Linux (CentOS) · UNIX · Microsoft Windows
Web Development	Bootstrap · HTML5 · CSS

Work Experience

Infosys - Southern California Edison (Contractor)

Los Angeles, CA

ASSOCIATE SOFTWARE ENGINEER

Oct. 2019 - PRESENT

- Leveraged knowledge in HTML5 and CSS to create basic input forms for company field workers to electronically inspect contractor sites
- Wrote python script to push data sent from field worker inspections to geo-spatial database using ArcGIS API
- Developed internal dashboard for company analysts to build reports from the inspection data
- Refactored and improved stored procedures and functions to allow interfaces to query specific data for analysts.

Projects

Habital (Frontend still in development) - Spring, PostgreSQL, Angular

Dec. 2020 - PRESENT

- Developed REST APIs for habit building application using Spring and PostgreSQL.
- Implemented social login using OAuth2.0 functionalities provided by Spring Security 5.
- Implemented stored procedures to partition tables based on timestamps for improving read queries.
- Currently developing SPA using Angular to consume the REST APIs.

Gravitate - Java, Python

Sept. 2018 - Dec. 2018

- Developed an Android app written in Java that groups users who want to carpool from San Diego to LAX to save money from using other rideshare services such as Uber and Lyft.
- Leveraged Firestore NoSQL cloud database to store user information such as flight times and profile details
- Leveraged Flight Stats API to retrieve real time flight stat information to implement an algorithm to group users with matching/overlapping flight schedules
- Login security was implemented using Firebase authentication
- Used Python's Flask framework to set up API endpoints as well as handling data validation.

Mapping Networks - C++

June 2018 - June 2018

- Developed a program to read a network, translated it into a graph with nodes and found the shortest and most efficient path by creating a minimum spanning tree using Dijkstra's, Prim's, and Kruskal's algorithm.

File Compression Program - C++

May 2018 - June 2018

- Implemented Huffman's encoding algorithm for lossless data compression
- Able to encode and decode bits to convert text files into binary and vice versa

Auto Correction & Spell Checker Program - C++

April 2018 - May 2018

- Implemented a string lookup table using C++ STL implementations of a BST and HashTable.
- Created a ternary search tree data structure for storing strings
- Implemented auto-correction to return a list of strings that are most likely the intended word given a certain prefix.
- Implemented spellchecker to return the correct spelling of a query that is mistyped.