Timothy Choi

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Education

University of California San Diego – Revelle College   June 2017
B.S. Computer Science   La Jolla, CA

Object Oriented Programming, Design & Analysis of Algorithms, Advanced Data Structure, Online Database Analytics, Database System Principles, Theory of Computation, Computer Architecture, Design Digital System, and Compiler Construction

Technical Skills

Languages	JavaScript, Java, C++, C, C#, Ruby, Scala, Ocaml, and MIPS Assembly
Libraries & Framework	React, Node.js, HTML, CSS, Bootstrap, jQuery, and Tomcat
Database, Platform & Software	MongoDB, SQL, PostgreSQL, Git, Android Studio, Google Maps/Youtube API, and Unity

Experience and Projects

Ipser Lab   *December 2019 - Current*
Equitable Startup Foundry
www.ipserlab.com
HTML, CSS, JavaScript

- Ipser Lab creates startup ideas, recipe mass production for my team, to reduce risks and minimalize capital requirements until funding is obtained or the idea is bought.
- Easily mass produce personal recipes into the food market and/or for personal use.
- Responsible for the website's front-end development and currently building the homepage.

Emaily   *December 2019 - Current*
Mass Email Survey Service
React, Redux, Node.js, Google OAuth, MongoDB, Mongoose, Stripe, SendGrid

- Developing a full-stack website service sending out surveys to thousands of emails to collect survey answers.
- Constructed user authentication with Google OAuth and Passport.js and storing user information with Mongoose in our MongoDB.
- Built a process to accept credit card payments to buy Emaily store credits using SendGrid.

Weather Maps   *September 2018*
Weather Forecast Website
React, Redux, Node.js, OpenWeatherMap API, Google Maps API

- Visualizations, graphs, comparing multiple locations' weather/climate/pressure simultaneously.
- Utilized action creators to fetch data from Google/OpenWeatherMap API while using middleware, redux-promise, to wait for ajax requests when retrieving sensitive resources from the websites.

Speed   *June 2018*
Card Game Simulator
Unity, C#

- Developed Speed, the card game, emulation with versus mode implementation by following its logic and adding flipping animations for a better card-game-like effect.
- Provided rationale and scouted feasibility of launching on Armor or Facebook Games platform.

Soul Sales   *April 2017 – June 2017*
Online Shopping Data Analytics Application
pgAdmin4, SQL, HTML, CSS, JSP, JSTL, JavaScript, Tomcat, Eclipse

- Buy and sell products online with the convenience to analyze sales data.
- Implemented concurrent transaction ensuring no errors and consistency during simultaneous manipulations with the same data.
- Optimized advanced queries analyzing large datasets through various dimensions: state, zip code, a-z order, and top sales giving merchants data on their sales.

Swift Sales   *January 2017 – March 2017*
Map App Promoting Business
HTML, CSS, Google Maps API, JavaScript, Node.js

- Promoted business by posting sales, discounts, and/or offers visible in the website's map.
- Produced a script to modify JSON files to store promotion submissions by merchants.
- Navigate towards promotion location with routes generated by Google Maps API.

NachOS   *September 2015 – December 2015*
Modified OS Simulating Computer Instructions
Java

- Regulated concurrency control amongst multiple threads by synchronizing mutexes, locks, conditional variables and semaphores.
- Enhanced speed of OS through pages and page tables including the implementation of page translations between physical and virtual pages for efficiency.
- Applied demand paging, swap files, and monitor to improve efficiency of the OS.

GarPr   *September 2014*
Tournament Rank Android Application
Android Studio, GitHub, Java

- Calculated ranking points through SSBM tournament results, like an Elo ranking system. Published in the Google Play Store: tinyurl.com/garprapp
- Fetched tournament results and ranking data via JSON API to display it aesthetically using native android components.

Activites: Design, Visual Art, Ping Pong, Competitive Gaming: Super Smash Bros. Melee, Billiards, Karaoke, and Dance.