

# Timothy Choi

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## Education

**University of California San Diego** – Revelle College  
**B.S. Computer Science**

June 2017  
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

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

## Experience and Projects

<b>Ipsier Lab</b> <b>Front-End Engineer</b> www.ipsierlab.com <i>HTML, CSS, JavaScript</i>	<b>Incubator for Mass Production of Personal Recipes</b> • Implementing a way to 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.	<b>December 2018 - Current</b>
<b>Emaily</b> <i>React, Redux, Node.js, Google OAuth, Passport, MongoDB, Mongoose, Stripe, SendGrid</i>	<b>Mass Email Survey Service</b> • Developing a full-stack website service sending out surveys to thousands of emails, with SendGrid, 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 Stripe.	<b>December 2018 - Current</b>
<b>Weather Maps</b> <i>React, Redux, Node.js, OpenWeatherMap API, Google Maps API, Sparklines</i>	<b>Weather Forecast Website Comparison and Analysis Application</b> • Built a website to compare multiple cities' weather, climate, and pressure simultaneously with SparkLine graphs • Utilized action creators to fetch data from Google/OpenWeatherMap API while using middleware, redux-promise, to wait for ajax requests when retrieving resources from the websites.	<b>September 2018</b>
<b>Speed</b> <i>Unity, C#</i>	<b>Card Game Simulator</b> • 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.	<b>June 2018</b>
<b>Soul Sales</b> <i>pgAdmin4, SQL, HTML, CSS, JSP, JSTL, JavaScript, Tomcat, Eclipse</i>	<b>Online Shopping and Sales Analytics Application</b> • 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.	<b>April 2017 – June 2017</b>
<b>Swift Sales</b> <i>HTML, CSS, Google Maps API, JavaScript, Node.js</i>	<b>Map Application Promoting Business</b> • 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.	<b>January 2017 – March 2017</b>
<b>NachOS</b> <i>Java</i>	<b>Modified OS Simulating Computer Instructions</b> • 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.	<b>September 2015 – December 2015</b>
<b>GarPr</b> <i>Android Studio, GitHub, Java</i>	<b>Competitive Tournament Rank Android Application</b> • 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.	<b>September 2014</b>

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