

## RICKY TAN

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### Education

California State University Long Beach	Long Beach, CA
BS Computer Science <i>GPA: 3.14</i>	Jan 2019 - Dec 2021
Long Beach City College	Long Beach, CA
Computer Science <i>GPA: 3.19 , Deans List with Distinction (Spring 2019)</i>	Jan 2017 - Jan 2019

### Work Experience

Code Coach @ <i>The Coder School</i> Pasadena, California	April 2021 - Present
<ul style="list-style-type: none"><li>Planned and taught 5 to 8 Coding lessons a week during the non summer periods to students ages 5-18 in Python, Java and C++.</li><li>Guided groups of sizes 3 to 8 kids ages 6 to 15 during Summer Code Camps to produce applications and art work with the Turtle API in Python.</li><li>Tracked progress through a proprietary progress tracker and updated parents on progress.</li></ul>	
Tutor and Peer Mentor @ <i>Cal State University Long Beach</i>	Jun 2020 - Present
<ul style="list-style-type: none"><li>Guiding a group of 6 mentees by discussing Computer Science career planning, course selection, and networking opportunities</li><li>Ensuring that freshman were provided with student organization connections, homework assistance, and personal guidance to successfully transition into the University</li><li>Tutoring Discrete Mathematics, Software Application Development, and Development Tools</li></ul>	
Tutor @ <i>Long Beach City College</i>	Jan 2018 - Jun 2020
<ul style="list-style-type: none"><li>Helped 10 classes up to 35 students improve and maintain their performance in Java classes over the course of 3 academic years</li><li>Served as a student assistant in classes including Introduction to Java, Object Oriented Application Development, and Data Structures and Algorithms</li></ul>	

### Skills

Programming Languages:

Java, Python, HTML, CSS, PHP, SQL, C++

Software Skills, Tools, and APIs :

RESTful API's, Android Studio, Microsoft Windows OS, Heroku Web Services, FireBase, Eclipse, Linux OS, Raspbian

### Projects

<b>Token Scanner</b> Python, Compiler Theory	Fall 2021
<ul style="list-style-type: none"><li>University project built to scan a C-like language for different token types for the Compiler Theory class at Long Beach State</li><li>Built Deterministic Automata from regular expressions to classify tokens. Produced look up tables, state tables, and action tables from the built Automata.</li><li>Identified valid words in the language through the generated tables in Python.</li></ul>	
<b>Algorithm Visualization Desktop App</b> Java, JavaFX, Object Oriented Application Development	Year 2021
<ul style="list-style-type: none"><li>Personal project built to visualize Data Structures and Algorithms.</li><li>Designed Java Classes to populate, display and operate on Data Structures through Java FX</li><li>Produced a User Interface through Java FX to optimize User Experience and accessibility</li></ul>	
<b>Tic Tac Toe Bot</b> Python, Artificial Intelligence	Aug 2020
<ul style="list-style-type: none"><li>University Project built on Python for the Artificial Intelligence Class at Long Beach State University</li><li>Implemented the Minimax Algorithm on the decision tree of Tic Tac Toe</li><li>Algorithm ensures that the user cannot win, but may achieve a draw or loss state on the board</li></ul>	
<b>Slideshow App</b> Java, Android Studio, Mobile Application Development	Jun 2020
<ul style="list-style-type: none"><li>University Project built on Android Studio for the Mobile Application Development class at Long Beach State University.</li><li>Created an Android Application that uses the RESTful Architecture that can run on mobile devices</li><li>Designed XML files for Android Studio to be filled with data from returned JSON objects</li></ul>	
<b>Coffee Shop App</b> Java, JavaFX, Object Oriented Application Development	September 2019
<ul style="list-style-type: none"><li>University Project that simulated a point of service system at a coffee and tea store</li><li>Planned and programmed 20 classes using the Factory and Decorator design patterns</li><li>Produced a User Interface through Java FX to optimize User Experience and accessibility</li></ul>	
<b>IsThisAWordBot</b> Python, Web Scraper, API Caller, HTML Parser	September 2018
<ul style="list-style-type: none"><li>Personal project started concurrently with my Intro to Java course. API's were researched independently.</li><li>Scanned comments on reddit to search for calling command "IsThisAWord" and reply with API calls to UrbanDictionary.com and Dictionary.Com Deployed on Heroku Cloud Services running Python.</li><li>APIs used included BeautifulSoup for HTML parsing, Dictionary.com and UrbanDictionary.com's API for requests to definitions, as well as Reddit's PRAW</li></ul>	

### Leadership and Accomplishments

<b>Treasurer</b> , <i>Association for Computing Machinery</i>	May 2020 - May 2021
<ul style="list-style-type: none"><li>Collaborating with officers to plan, host, and promote technical work shops and social events for the Long Beach chapter of ACM with a reach of over 800 students</li><li>Mentored participants of the Big-O little-o mentorship program.</li><li>Maintained correspondence with companies in relation to sponsorship, BeachHacks, and collaboration with ACM.</li></ul>	