

<b>EDUCATION</b>	<b>University of California, Irvine</b>	Jun. 2021
	B.S., Computer Science GPA: 3.75/4.00   Dean's Award List (7 Quarters)	
<b>SKILLS</b>	<b>Programming</b> Python, C/C++, Java, HTML, CSS, JavaScript, SQL, Common Lisp, MIPS Assembly, Prolog <b>Utilities</b> Git, Vim, Linux/Unix, MySQL, React.js, JUnit, Node.js, Express.js, MongoDB <b>Languages</b> Mandarin, Cantonese	
<b>PROJECTS</b>	<b>ArdentChat</b> - <a href="https://github.com/imliuyzh/ArdentChat">https://github.com/imliuyzh/ArdentChat</a> <i>A real-time messaging application for one-on-one communication between 50 students and staff members.</i> <ul style="list-style-type: none"> <li>Implemented the front-end with React.js which allowed users to send text messages in any length and receive media files such as JPEG, MP4, and PDF</li> <li>Built a RESTful API with Node.js and Express.js that returned user information stored by the Atlas MongoDB service</li> <li>Maintained the program with Git while adding new features and scaling resource usages</li> </ul> <b>ICS Search Engine</b> - <a href="https://github.com/imliuyzh/ICS-Search-Engine">https://github.com/imliuyzh/ICS-Search-Engine</a> <i>A search engine written in Python that was able to handle thousands of webpages under a subset of the ICS domain with the query response time below 300ms.</i> <ul style="list-style-type: none"> <li>Ranked the relevance among seven thousand pages in low response time by coding custom cosine similarity algorithm with tf-idf weighting</li> <li>Parsed the text within webpages to store them into an inverted index distributed among various small index files</li> <li>Constructed the search engine with 3 students in 4 weeks</li> </ul>	
<b>RELATED EXPERIENCE</b>	<b>Software Development Intern</b> <span style="float: right;">Jul. 2020 – Sep. 2020</span> <i>Ardent Academy for Gifted Youth</i> <ul style="list-style-type: none"> <li>Developed a whiteboard application with HTML, CSS, and JavaScript in response for drafting needs among students who enrolled in the math program</li> <li>Renovated the front-end of Ardent Labs' website with in-demand industrial web development tools such as React.js and NPM</li> <li>Produced a prototype for an internal messaging application with the MERN stack for individual conversation between students and teaching staff members</li> </ul> <b>ICSSC Project Committee Developer</b> <span style="float: right;">Oct. 2019 – Jul. 2020</span> <i>University of California, Irvine</i> <ul style="list-style-type: none"> <li>Collaborated with over 10 developers to create a website enabling students to view information for over 5000 classes and their grade distribution since Fall 2014</li> <li>Reported current status for the assigned team to the head of the project committee during weekly meetings</li> <li>Organized several activities enabling students to learn essential development tools like Git</li> </ul> <b>Student Lab Tutor</b> <span style="float: right;">Mar. 2019 – Jun. 2020</span> <i>University of California, Irvine</i> <ul style="list-style-type: none"> <li>Engaged with more than 100 students on their class assignments through debugging and explaining the control flow of their programs</li> <li>Clarified students' confusion on difficult concepts under 5 minutes on average</li> </ul>	