

**EDUCATION**

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<b>Irvine, CA</b>	<b>University of California Irvine</b>	<b>Fall 2016 – June 2020</b>
<ul style="list-style-type: none"><li>• B.S. in Computer Science with a Minor in Mathematics</li><li>• <b>Relevant Coursework</b></li><li>• Neural Networks and Deep Learning, Machine Learning and Data-Mining, Algorithms for Probabilistic and Deterministic Graphical Models, Applications of Probability in Computer Science</li></ul>		

**EMPLOYMENT**

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<b>Sprouts, Inc</b>	<b>Courtesy Clerk</b>	<b>Summer 2016 – Fall 2017</b>
<ul style="list-style-type: none"><li>• Provided Customer service, restocked shelves, bagging groceries, handling damaged or returned products</li><li>• Maintained the front end of the store and parking lot, assisting customers to their cars and collecting shopping carts from the parking lot</li></ul>		
<b>Self Employed</b>	<b>Math Tutor</b>	<b>Fall 2017 – Summer 2018</b>
<ul style="list-style-type: none"><li>• Tutored students ranging from kindergarten to college, helped explain mathematical concepts in easy to understand language, broke down complex problems.</li><li>• helped create goals, gave students quizzes and assessed progress, helped students build continuously increasing knowledge.</li></ul>		
<b>UC Irvine</b>	<b>Research Assistant</b>	<b>Summer 2019-Current</b>
<ul style="list-style-type: none"><li>• Simulated Cancer cell growth using numerical methods</li><li>• applied machine learning algorithms in PyTorch/sklearn to try and detect cancer cell growth early in patients</li></ul>		

**PROJECTS**

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<b>Minesweeper AI (2019).</b>
<ul style="list-style-type: none"><li>• Created an algorithm in C++ for consistently being able to solve 80% of beginner, 70% of medium, and 30% of expert worlds when ran 10,000 on each difficulty level.</li><li>• Used pattern-finding such as 1-1 and 1-2 patterns, applied concepts of linear algebra to find known bombs in unknown tiles, and applied probability when no known guaranteed move could be made.</li></ul>
<b>Pac Man (2017).</b>
<ul style="list-style-type: none"><li>• Recreated an identical version of the 2D Maze Game using Java Swing/AWT</li><li>• Applied object-oriented practices</li></ul>
<b>Search Engine (2019)</b>
<ul style="list-style-type: none"><li>• Created a web crawler in python that would only crawl our UCI domain pages. Pruned and ranked the documents using porter stemming lemmatization, TF-IDF ranking, and cosine similarity</li><li>• Saved relevant Doc ID's and URLs into a database using MongoDB and created a GUI for multi word searches using pySimpleGUI</li></ul>

**EXTRACURRICULARS**

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- Member of the Camping Club and the AI club at UCI

**LANGUAGES**

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- C++; C; Python; Java; Mips;JavaScript;Node.js;Libgdx
  - Linux; Visual Studio; Unity; Mars; Android Studio