

DEREK LE

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EDUCATION

University of California, Riverside

Class of 2022

Bachelor of Science in Computer Science

Relevant Coursework:

Software Design, Data Structures and Algorithms, Discrete Mathematics, Data Analysis,
Intro to Artificial Intelligence, Intro to Machine Learning

SKILLS

Languages C++, Python, JavaScript, Java, HTML, CSS

Technologies Git, ReactJS

EXPERIENCE

IT/Front Desk

Sept 2017 - Mar 2020

Natural Sciences Division Tutoring Center at Pasadena City College

Pasadena, CA

- Provided technical and academic assistance for employees and students at tutoring center
- Developed application that improved access to tutoring center by 45% using C++ and Qt

PROJECTS

Roblox Game Scraper

Aug 2021

- Implemented program that scraped top 200 popular games on Roblox to predict game genres
- Achieved 85% accuracy by comparing game descriptions and taking account for notable keywords and phrases
- Utilized Python, BeautifulSoup4, Selenium, Pandas, NumPy, and Scikit-Learn

8-Puzzle Solver

November 2021

- Constructed script to solve 8-tile puzzles and return tile operations needed to solve corresponding puzzle by using Python
- Incorporated different search algorithms such as A-Star Search to test and compare efficiency of different heuristics with varied puzzle difficulties

Compiler Project

June 2022 - Aug 2022

- Coordinated with colleague to develop a MiniJava-to-Mips compiler that translated files written in MiniJava to MIPS assembly language code
- Arranged and constructed main phases of compiler design to achieve implementation of compiler by using Java

Algorithm Visualizer

Oct 2022 - Nov 2022

- Deployed an SPA allowing users to engage and interact with various algorithms
- Provided visual representations on functionality of sorting and path-finding algorithms
- Implemented using ReactJS, JavaScript, HMTL, CSS