Derek Le

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EDUCATION

University of California, Riverside   **Riverside, CA**
Bachelor of Science in Computer Science   *Class of 2022*
Relevant coursework:
- Software Design, Discrete Mathematics, Data Analysis, Intro to Artificial Intelligence, Intro to Machine Learning

EXPERIENCE / PROJECTS

Card Scanning Application   *June 2019 – November 2019*
- Built a sign-in application at Natural Sciences Division Tutoring Center of Pasadena City College using C++ and Qt
- Improved access to tutoring center by 45% by allowing students to sign-in via scanning an identification card

Roblox Game Scraper   *August 2021*
- Implemented program that scraped top 200 popular games on Roblox to predict game genres with 82.5% accuracy by comparing certain keywords and phrases within game's description
- Developed in Python utilizing BeautifulSoup, Selenium, Pandas, NumPy, Scikit-Learn

8-Puzzle Solver   *November 2021*
- Constructed script to solve eligible 8-tile puzzles and return tile operations to solve corresponding puzzle using Python
- Incorporated different search algorithms such as A-Star Search to test and compare efficiency of different heuristics with varied puzzle difficulties

Digit Classification   *May 2022*
- Utilized machine learning techniques to accurately classify hand-written digits with 86% accuracy by implementing neural network model
- Constructed in Python with NumPy

Compiler Project   *June 2022 – August 2022*
- Coordinated with a partner 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 project using Java

TECHNICAL SKILLS

Languages:
- C++, Python (NumPy), HTML, CSS, JavaScript, Java

Technologies:
- Git, Vim