Brian Lin

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EDUCATION

University of California, Irvine — Irvine, CA
B.S. Computer Science - *GPA: 4.0* — Sep 2020 - Present

Dublin High School — Dublin, CA
High school diploma - *GPA: 4.34* — Aug 2016 - May 2020

RELEVANT COURSEWORK

Coursework Completed:
Programming with Software Libraries, Intermediate Programming, Discrete Math, Programming in C/C++, Introductory Computer Organization, Data Structure Implementation and Analysis, Machine Learning and Data Mining, Information Retrieval

Coursework In Progress:
Introduction to Artificial Intelligence, Introduction to Data Management, Principles in System Design

PROJECTS

Projects (*written in Python 3.9.1):*

UCI Dining Hall Web Scraper

- Developed a Selenium web scraper that retrieves UCI's dining hall's menu for the day along with each item's nutritional information
- Deployed an HTTP API with query parameters delivering nutritional information for meals which integrates with AWS Lambda and Google Firebase

UCI Course Auto-Enroller

- Developed a Selenium web scraper that periodically checks UCI's schedule of classes for class openings
- Developed an automated Selenium browser and web scraper that integrates with the course planner website AntAlmanac to enroll students in their scheduled classes if there are openings

ICS Search Engine

- Coded a GUI-based search engine for the UCI ICS domain using tf-idf scoring, bi-gram analysis, and metadata analysis to perform ranked retrieval on over 37,000 documents

Columns Clone

- Coded a clone of the popular 1990 Atari game Columns using PyGame

AWARDS

Regents' Scholarship — UCI - Mar 2020

Deans' Scholarship — UCI - Mar 2020

VOLUNTEER EXPERIENCE

University of California, Irvine — Irvine, CA
ICS-31 Peer Tutor — Sep 2021 - Dec 2021

- Simplified, explained, visually demonstrated, and answered questions about Python fundamentals during in-person lab sections of 30 college students in an introductory Python programming course
- Assisted students in debugging their code and taught students effective debugging practices

Dublin High School — Dublin, CA
Geometry Peer Tutor — Jan 2019 - May 2019

- Simplified, explained, and visually demonstrated geometric concepts to a class of 30 special education students in Informal Geometry

SKILLS

- Python, C++, MIPS Assembly, Selenium, AWS Lambda, AWS API Gateway, Firebase