JAYLEN LUC

Los Angeles, California
323-806-6878 — jaylenluc1@gmail.com

EDUCATION

University of California, Irvine *2020 - 2024*
BS in Software Engineering
Information retrieval(A), Data Structures and Algorithms, Design and analysis of algorithms
•Python•Java•C++•SQL•MySQL•MongoDB

EXPERIENCE

Research Assistant for SpArcFiRe (SPiral ARC FInder and REporter), UC Irvine — Advised by : Ph.D. Wayne Hayes whayes@uci.edu *Jan. 2023 – Present*
•python •numpy

Graphing differential reddening using segmentation to determine the near side of galaxies on the minor axis Github Link

Crossmatching Pan-starrs subset with all of SDSS for undergraduate research. Using Spherical Cosine distance, the program outputs the best possible matches for Pan-Starrs objects in the SDSS galaxy catalog for DR7. Github Link

Computer Science Tutor, UC Irvine *Sept. 2022 – Present*
•communication•Peer Tutoring

Helped students understand confusing behavior from their own code, why it happened, and its fixes

RELEVANT PROJECTS

Interactive pedagogical map with web scraping *Jul 2022 - aug 2022*
• Web Scraping •Back-End Web Development •Front-End Web Development•Python

An interactive Map that uses 100 percent web-scraped and queried data and images designed for a convenient, intuitive, human-centric interface and access to country statistics and local news via the map interface with real-time updates. GitHub Link

Bibliometrics Visualizer *Dec 2022 - Jan 2023*
•User Experience •User Interface Design • Java Swing• Java

User Interface that allows users to receive their Hirsch index scores and percentiles along with 3 other abstract bibliometric determiners picked under my discretion to complement the shortcomings of the Hirsch index. Scores are plotted in annotated graphs. GitHub Link

Cellular automata simulator *Apr 2023 - Present*
•Simple and Fast Multimedia Library (SFML) •C++

Simulates artificial communal life forms and their behavior over time given very simple preset rules. Utilizes the C++ library SFML for terminal graphics. Optimized to utilize less RAM and CPU computations which resulted in faster runtime GitHub Link

Vertical Search Engine on Birds *Jun 2023 - Present*
•Search Engines •Python • Search Engine Ranking • Beautiful Soup •PyMongo

Topicality based focused search engine to crawl, language process , index, rank, and retrieve web pages on the topic of the Class Aves GitHub Link