

BRANDON LE LIBERTORE

Software Engineer

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Education

University of California, Irvine (UCI)

September 2018 - July 2022

Bachelor of Science in Computer Science | Cumulative GPA: 3.023/4.0

- Courses: Data Structures and Algorithms | Information Retrieval | Software System Design | Data and Web Apps

Technical Skills

Languages Python | C++ | Java | JavaScript | HTML | CSS | SQL

Tools Git | Vscodex | Pycharm | IntelliJ | MySQL Workbench

Databases MySQL

Projects

FabFlix Web-Based Ecommerce System

March 2022 - June 2022

Online ecommerce website based on Netflix to locate, display, and purchase movies.

- Developed IDM, Movies, Billing, and Gateway Services applying **Java, Spring Boot, Jackson, SQL, MySQL, JDBC, and NamedParameterJdbcTemplate** storing **10,000+** unique movies and **100,000+** unique persons.
- Implemented an encrypted user registration and login feature that succeeds in protecting against **99.99%** of non-genuine attempts and **100%** success login rate.
- Devised a movie querying system with **10 unique filter** options permitting purchase of movies via **Stripe API**.
- Established basic frontend to display the registration and login page. Included a movie search page to allow for user queries and the **10 most relevant films** using **JavaScript, HTML, CSS, React, JSX, and Bootstrap**.

Cloudy Happiness Web-Based Ecommerce System

September 2021 - December 2021

Online ecommerce website to sell clothing via **Shopify API** (<https://cloudy-happiness-webstor-1888d.web.app/>).

- Co-led and initiated meetings with clientele through daily communication via Zoom and Discord. Presented **biweekly** informative updates on the progression of the project and meetings with clientele.
- Analyzed clientele feedback leading to **two iteration** phases of designs for the “Home”, “About Us”, “Products”, footer, and order page through **Figma** over a **10 week period**.
- Created and drafted prototypes of the “About Us” page, “Learn More” button, and website footer using **JavaScript, HTML, and CSS**.
- Launched a prototype of the website resulting in **300+ new impressions** and **20+ new orders** post deployment of the website’s launch (present).

Web Crawler

September 2021 - December 2021

A bot to explore and retrieve embedded URL links to index the contents of the website’s HTML pages.

- Teamed to assemble a web crawler in **Python** that retrieves and indexes each URL of the “uci.edu” domain and the “ics”, “cs”, “informatics”, and “stat” subdomains in under **two seconds**.
- Co-orchestrated and communicated the approach within a **two-person** team to obtain acceptable URLs.
- Redesigned the web crawler to filter out any websites that either trapped the crawler or whose file suffix did not match required file type resulting in over **10,000 indexed unique** URLs.

Search Engine

September 2021 - December 2021

Software system to execute web searches amongst the indexed content of the “uci.edu” domain and subdomains.

- Performed the creation and concatenation of **three partial indices** of size **1024MB** prior to the final construction of an inverted index.
- Built an inverted index of over **55,000 unique** URLs in **Python** that tokenizes and maps each word to a document id and term frequency-inverse document frequency score (word weight/significance).
- Constructed a search component to retrieve and display the **10 most relevant** URLs to any query under **300ms**.
- Facilitated workloads and coordinated weekly milestone deadlines between a **two-person** team.