Mohammad Mirzaei

Irvine, CA
(949-331-3740)

✉ mirzaem1@uci.edu   🌐 mirzaei.vercel.app   in linkedin.com/in/moemirzaei   🐱 github.com/Moe131

EDUCATION

Bachelor of Computer Science   **Irvine, CA**
University of California, Irvine | GPA: 4.00   September 2023 - June 2025

Associate of Science   **Irvine, CA**
Irvine Valley College, Irvine | GPA: 4.00   September 2020 - June 2023

SKILLS

● Python   ● Java   ● Javascript   ● C/C++   ● AWS   ● SQL   ● PostgreSQL   ● SQLite

● React JS   ● React Native   ● Git   ● HTML/CSS

EXPERIENCES

Website Developer   **Irvine, CA**
Tournex crypto project   June 2022 - August 2022
● Developed an interactive and responsive website using **React JS and Javascript**
● Implemented a real-time cryptocurrency price tracker by integrating different **APIs** which resulted in a remarkable 60% increase in website traffic in the first month
● Collaborated in the **UX/UI** design process to create interactive and visually appealing user interfaces
● Conducted code reviews and provided constructive feedback to team members to maintain code quality and consistency.

PROJECTS

Hotel Reservation Application
● Developed a complete hotel reservation application using **Python**, focusing on providing users with a seamless and secure booking experience
● Integrated a relational **SQL** database (**SQLite**) to store user information, room details, and reservation data.
● Created a user-friendly interface for browsing available rooms, selecting check-in and check-out dates, and managing reservations using **Tkinter**

Web Crawler
● Designed and implemented a web crawler using **Python** and libraries like **BeautifulSoup** and to systematically browse the web.
● Designed crawling algorithms to discover and fetch web pages while adhering to politeness policies.
● Implemented **Simhash** algorithm for exact and near text duplication detection, ensuring the avoidance of duplicate content
● More than **12,000 URLs** within the **UCI** website subdomain were crawled, and their content was parsed for indexing.
● Collaborated with fellow students using **Git** and **GitHub** to divide tasks and streamline development efforts.

Search Engine Web Application
● Built a **Python**-based search engine from scratch, capable of processing **hundreds of thousands** of documents or web pages with query response times under 300ms.
● Created a web application interface for the search engine using **Flask**.

● Integrated the **OpenAI API** to summarize page content and present concise summaries in the search results.

● Implemented **PageRank** and **relevance scoring** algorithms to dynamically rank search results, considering factors like keyword frequency, cosine similarity, and keyword placement within web pages.

CAMPUS INVOLVEMENT

IVC Computer Science Club   **Irvine, CA**
Webmaster   September 2022 - June 2023

● Maintained and updated the club's website and managed the online platforms and tools used by the club.

● Implemented an intuitive and user-friendly feature that allowed club members to login to the website and upload their project for all website viewers, resulting in increased traffic and participation by members.

UCI Artificial Intelligence Club   **Irvine, CA**
Member   September 2023 - present

● Attended events and project meetings held by the club to work on real-world projects that have helped me apply theoretical knowledge to practical problems