



# Mohammad Mirzaei

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## EDUCATION

### Bachelor of Computer Science

University of California, Irvine | GPA: 4.00

Irvine, CA

September 2023 - June 2025

### Associate of Science

Irvine Valley College, Irvine | GPA: 4.00

Irvine, CA

September 2020 - June 2023

## SKILLS

- Python
- Java
- Javascript
- C/C++
- AWS
- SQL
- PostgreSQL
- SQLite
- React JS
- React Native
- Git
- HTML/CSS

## EXPERIENCE

### Website Developer

*Tournex crypto project*

Irvine, CA

June 2022 - August 2022

- Developed 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

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### 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