

# Ashar UL Huda

hudaau@uci.edu • (925) 435-6691 • [LinkedIn](#) • Irvine, CA

## EDUCATION

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**University of California Irvine**

**Sept 2022 - June 2026**

*B.S. in Software Engineering and Informatics, Specializing in Human Computer Interaction*

**GPA:** 3.4/4.0

**Relevant Courses:** Data Structures and Algorithms, Information Retrieval, Discrete Math, Machine Learning and Data Mining, Linear Algebra, Programming with Software Libraries, Probability and Statistics for Computer Science

## TECHNICAL SKILLS

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**Programming Languages:** Python, C++, Java, SQL, CSS, JavaScript

**Operating Systems:** Windows 7,8,10,11, MacOS

**Libraries:** BeautifulSoup, PyTorch, Tkinter, Swing, OpenCV, NumPy

**Frameworks:** Jupyter Notebook, GitHub, React JS, Figma, MongoDB

**Languages:** English (Native), Urdu, Arabic

## EXPERIENCE

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**Math Club Tutor and President**

**August 2020- June 2022**

- Mentor over 50+ High School students in challenging Calculus and PreCalculus concepts
- Challenged students to think critically and apply problem solving techniques to solve Math-Olympiad level problems
- Organized and prepared math club members to take the American Mathematics Competition (AMC) where I and many members placed well above the average test results in the country

## PROJECTS

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**Trailblazer - Biking Trail Finder** | ReactJS, MongoDB

- Collaborated with a team of 4 and developed a web application using React JavaScript and Bootstrap in our frontend
- Utilized MongoDB for our user database, user preferences and saved images
- Integrated GoogleMaps API for route information, reviews, and display of location and routes

**CrawlingICSServers** | Python

- Created a web crawler with a team of 4 that scraped and analyzed data from over 10,000 domains
- Implemented parsing algorithms, URL filtering and detection of traps, empty URLs and redirection
- Implemented Multithreading for more efficient scraping and crawling

**PirateSearchEngine** | Python, BeautifulSoup, NLTK

- Collaborated in a group of 4 to create a Pirate themed search engine to search through scraped ICS servers
- Developed on Python, searched through ICS domains to deliver sub-300 ms query response times
- Utilized search technique algorithms such as HITS, tf-idf, SimHashing and InvertedIndexes

**League Of Legends Game Stats Tracker** | Python

- Developed a game statistics tracking tool using Python and Riot API
- Implemented data retrieval to fetch player performance, match history and game statistics
- Currently implementing data trends and Machine Learning capabilities