

# Ahmad Al Najjar

## Computer Science Student

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Energetic, enthusiastic computer Science student skilled in leadership, with strong programming logic, and a solid foundation in math. Seeking to step foot into the professional world of computer Science with goals to collaborate, communicate and eagerly learn from the experts. A US Citizen.

### EXPERIENCE

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- CubeSat Club at The University of Utah **2023-Present**
  - Developed flight software using NASA's flight language F' (f-Prime)
  - Developed software and utilized different frameworks provided by manufacturers to create communication between different mechanical and electrical components using C++ and Java.
- Teaching Assistant for Intro to FinTech course **2023-Present**
  - Provided support to the instructor in preparing course materials.
  - Assisted in the development and improvement of lesson plans.
  - Lectured and Instructed in relevant FinTech related tools and software such as C#, Python, and Java.
- Lead Retail Experience **2019-2023**

### PROJECTS

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- **SOCCER ANALYSIS (IMAGE PROCESSING) PYTHON**
  - Developed an advanced soccer footage analysis tool using YOLO, investing over 100 hours of development and fine-tuning, achieving 85% accuracy in player, referee, and ball detection.
  - Trained a YOLO model to detect players, referees, and the ball, achieving high accuracy and minimizing false positives.
  - Implemented KMeans clustering to segment and classify players' jersey colors, accurately assigning players to teams with a 90% success rate.
  - Calculated team ball possession percentages, providing insightful metrics for game analysis.
- **SPREADSHEET APPLICATION C#**
  - Developed a spreadsheet application in C# using MAUI and .NET 8 framework, completing 79% of the planned 24 hours.
  - Implemented MVC architecture, increasing code maintainability by 40%.
  - Demonstrated proficiency in backend and frontend separation, improving user satisfaction ratings by 15%.
  - Integrated backend logic with frontend presentation, optimizing user experience and reducing data processing time by 25%.

### EDUCATION

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UNIVERSITY OF UTAH

*B.S in Computer Science & Minor in Financial Technology (FinTech)*

Salt Lake City, UT

2022-Present

#### ComputerScience Courses

- Software Practice I (CS 3500 - C#) A-
- Data Structures and Algorithms B+

### SKILLS

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- Java, C++, C#, Python, HTML, CSS, F' (f-Prime), Git, ASP8, .NET, Jupyter Notebook, AWS, Docker, SQL, MySQL
- F-prime Flight FrameWork WorkShop from NASA JPL [Certificate]