

# ASHKAN ARABI

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## EDUCATION

**B.S. Computer Science, Mathematics Minor**  
the University of Texas at El Paso, El Paso, TX

Graduating May 2026  
GPA: 3.91  
Major GPA: 4.00

Honors & Activities: Dean's List since Fall '22 , Houston Endowment Scholarship Recipient  
Relevant coursework: Discrete Structures, Data Structures, Matrix Algebra, Computer Architecture

## SKILLS

**Programming / Markup Languages:** Python, JavaScript, Java, Bash, LaTeX, C++

**Frameworks & software:** TensorFlow, git, ReactJS, Singularity

**Certifications:** Coursera Deep Learning Specialization - August 2023

## EXPERIENCE

**Temple University, Philadelphia, PA: Undergraduate Researcher**

June – July 2023

- Conducted original research on using Wi-Fi CSI for hand gesture recognition on smartphones (LaTeX)
- Developed novel lightweight CNN architecture to classify 5 gestures (TensorFlow, Python, Bash)
- Used HPC GPU cluster for model development & optimization (SSH, Singularity, Bash)

**UTEP, El Paso, TX: Computer Lab Assistant**

January - May 2023

- Troubleshooted hardware & software of more than 10 students and faculty daily (Windows, MacOS)
- Maintained and updated fleet of 500+ computers (Windows)

## ACADEMIC & PROJECTS

**Music Genre Classification**

Spring 2023

Developed convolutional model to classify music genres based on their mel spectrogram.

- Led team of 3 to meet project deadlines by dividing tasks based on skill level (Project Management)
- Designed, tested, and implemented CNN model for classification (TensorFlow, Numpy, Conda)

**Blabber - a CLI Twitter replica**

Fall 2022

Made CSI app that allows users to create an account, post, follow others, see a timeline, and delete their account

- Used scanners and writers to save, update, and delete user information and posts (Java)

**Contribution to Monkeytype**

Spring 2021

Added 3 levels of Persian tests to open source typing test website

- Developed script to extract and check words from large text bodies using Vajehyab.com dictionary API. (Python)
- Uploaded more than 21,000 most used Persian words to site database (git, GitHub)

## PERSONAL PROJECTS

**Chess Knight Path Finder**

Spring 2023

Used DFS graph traversal to find the most optimal path for chess knight.

- Given a starting and ending point, algorithm finds least number of steps to reach destination (JavaScript)

**Weather Webapp**

Spring 2023

Used variety of web APIs to develop weather forecast webapp with dynamic UI elements

- Used asynchronous programming to fetch and render data from OpenWeatherMap.org (JavaScript)
- Bundled site assets using Webpack to minimize deployment size (Webpack)

**To Do List Webapp**

Fall 2022

Developed interactive to-do list webapp with local save function through vanilla JS

- Developed all internal logic from scratch following OOP principles (JavaScript)
- Used Chrome's local storage API for saving user data (JavaScript)
- Used typical git/GitHub workflow during implementation (git, GitHub)

## LEADERSHIP

### **Association for Computing Machinery**

Fall 2022 - Present

Multiple leadership roles, including publicity officer & treasurer)

- Recruited 50+ members through tabling and PowerPoint presentations. (presentation)
- Assisted with organizing and planning of more than 6 workshops sponsored by companies such as Google. (management)