

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, HTML/CSS, JavaScript, Java, Bash, LaTeX

Frameworks & Software: TensorFlow, git, ReactJS, Singularity

Certifications: Coursera Neural Networks & Deep Learning - July 2023

EXPERIENCE

Temple University, Philadelphia, PA: Undergraduate Researcher

June – July 2023

- Conducted original research in team of 2 on using Wi-Fi CSI for hand gesture recognition on smartphones (LaTeX)
- Developed CNN architecture to classify 5 gestures from 4 people in 6 scenarios (TensorFlow, Python, Bash)
- Obtained >90% classification accuracy by using techniques such as LR Decay (TensorFlow, Keras)

UTEP, El Paso, TX: Computer Lab Assistant

January - May 2023

- Provided top-tier hardware & software tech support for 10+ students, staff, and faculty daily
- Maintained and updated hardware & software of 500+ computers through regular checkups

ACADEMIC & GROUP 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)

To Do List Webapp

Fall 2022

Developed interactive to-do list webapp with local save function through vanilla HTML, CSS & JS

- 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 public presentations. (presentation)
- Organized and planned of more than 6 workshops sponsored by companies such as Google. (management)