ASHKAN ARABI

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EDUCATION

B.S. Computer Science, Mathematics Minor   Graduating May 2026
the University of Texas at El Paso, El Paso, TX   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, C++
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 Scheduling (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 offier & treasurer

- Organized and planned of more than 6 workshops sponsored by companies such as Google.
- Presented multiple interactive workshops attended by org members on topics such as Node.JS.