ASHKAN ARABI

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EDUCATION

B.S. Computer Science, Mathematics Minor <div align="right">Graduating May 2026</div>

the University of Texas at El Paso, El Paso, TX <div align="right">GPA: 3.91</div>

<div align="right">Major GPA: 4.00</div>

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 <div align="right">June – July 2023</div>

- 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 <div align="right">January - May 2023</div>

- 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 <div align="right">Spring 2023</div>

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 <div align="right">Fall 2022</div>

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 <div align="right">Spring 2021</div>

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 <div align="right">Spring 2023</div>

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 <div align="right">Spring 2023</div>

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 <div align="right">Fall 2022</div>

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 offier & 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)