

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 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

Personal Portfolio

Spring 2023

Built complete portfolio website with ReactJS and bare CSS. See <https://ashkan.zone>.

- Designed and implemented simple responsive and interactive UI using only bare CSS. (HTML, CSS)
- Used ReactJS components to create single-page application, maximizing responsiveness. (ReactJS, JavaScript)

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)

Tic Tac Toe webapp

Fall 2022

Minimal Tic-Tac-Toe game supporting human-human, human-bot, and bot-bot game-modes.

- Implemented smooth animations using CSS keyframes to improve site navigation. (CSS)
- Utilized CSS glow, shading, and translucency effects for a modern and sleek look. (CSS)
- Used OOP principles to track game progress. (JavaScript)

LEADERSHIP

Association for Computing Machinery

Fall 2022 - Present

Multiple leadership roles, including publicity officer & treasurer)

- Engaged with the student body to recruit more than 50 students.
- 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.