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: Linux, TensorFlow, git, ReactJS, Conda, 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

Blabber - a CLI Twitter replica   Fall 2022
Made CLI 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)

PERSONAL PROJECTS

Tweet topic detection   Summer 2023
Built model to detect one of 8 cyber-security topics mentioned in Tweets.

- Used word embeddings pre-trained on Tweets and Bidirectional GRU to achieve 93% accuracy (Keras, NLP)

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)

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 nativation. (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

- Presented multiple interactive workshops attended by org members on topics such as Node.JS.