ASHKAN ARABI

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EDUCATION

Bachelor of Science in Computer Science, Mathematics Minor — Graduating May 2026
University of Texas at El Paso, El Paso, TX — GPA: 3.94
Major GPA: 4.00

Relevant coursework: Object-Oriented Programming, Data Structures & Algorithms, Discrete Math, Matrix Algebra
Honors & Activities: Dean's List since Fall '22 , Houston Endowment Scholarship Recipient

SKILLS

Programming / **Markup Languages:** Python, Vala, HTML/CSS, C++, JavaScript, Java, C, LaTeX, Bash
Frameworks & Software: Linux, git, GTK, NumPy, Pandas, PyTorch, TensorFlow, React.JS, Conda, Microsoft Office
Certifications: Coursera Deep Learning Specialization - October 2023

EXPERIENCE

Upcoming Information Technology Intern: Texas Instruments, Dallas, TX — Summer 2024

Undergraduate Research Assistant: UTEP, El Paso, TX — January 2024 - present

- Contribute to the creation of speech-anomaly detection system by using generative AI to synthesize training datasets.
- Used **PyTorch** to reconstruct state-of-the-art networks proposed in papers.

Open-Source Contributor: GNOME Foundation, Remote — December 2023 - present

- Fixed bug causing GNOME Clocks timers to not progress during system suspend by reworking the timer logic.
- Added functionality to world clock to show country and state in case two cities have the same name.

Student Coordinator: AI4ALL, Remote — August 2023 - December 2023

- Mentored 16 students across 4 project groups in AI4ALL's Apply AI program.
- Helped students understand AI/ML concepts such as loss, backpropagation, CNNs, RNNs, transfer learning, etc.

Volunteer Researcher: UTEP, El Paso, TX — August - October 2023

- Collaborated to develop dynamic software for training users' weaknesses in spotting Phishing emails.
- Trained deep transformer model using **TensorFlow and Keras** to classify email cues, such as a sense of urgency.
- Preprocessed and visualized more than 5 datasets using **Pandas and NLTK** to use as training material for model.

Undergraduate Researcher: Temple University, Philadelphia, PA — June - July 2023

- Conducted **original research** presented at ACM MOBIHOC about using Wi-Fi CSI for hand gesture recognition on smartphones.
- Developed CNN architecture to classify 5 gestures from 4 people in 6 scenarios using **Keras**.
- Obtained >90% classification accuracy by using techniques such as LR Scheduling.

PROJECTS

Hacktoberfest 2023 — October 2023

- Contributed to three open-source repositories through bug-fixes and translations.
- Fixed subtitle cutoff bug in ASCII video player written in **C**.

Advent of Code 2022 - Annual Programming Challenge — August 2023

- Coded **C++** solutions to 12 of 25 challenge questions using backtracking, and graph traversal algorithms.
- Used classes, queues, vectors, and streams to efficiently calculate results based on given inputs.

LEADERSHIP

President & Founder - Free and Open-Source Software Club at UTEP — December 2023 - Present

- Encouraged participation in open-source projects through workshops, info sessions, competitions, and social events.

Treasurer - Association for Computing Machinery at UTEP — August 2022 - January 2024

- Planned and executed the Sun City Hackathon; a three-day competition attended by **more than 20 students** to develop novel AI-powered apps.