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: Data Structures & Algorithms, Discrete Math, Matrix Algebra, Computer Architecture, Statistics
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, NumPy, Pandas, TensorFlow, git, React.JS, Conda, Docker, Microsoft Office
Certifications: Coursera Deep Learning Specialization - October 2023

EXPERIENCE

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

Open-Source Contributor: GNOME Foundation, Remote — December 2023 - present
- Fixed bug causing GNOME Cloks timers to not progress during system suspend.
- Expanded the accessibility of the GNOME Builder IDE by translating it to Persian.

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.

Undergraduate Researcher: Temple University, Philadelphia, PA — June - July 2023
- Conducted **original research** ⬈ in team of 2 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.
- Used **Bash, Android Debug Bridge, and NumPy** for data extraction and preprocessing.

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.

Tweet topic detection ⬈ — August 2023
- Tuned **Keras** model to detect one of 8 cyber-security topics mentioned in Tweets.
- Utilized Twitter pre-trained word embeddings and Bidirectional GRU to achieve 93% accuracy.

To Do List Web App ⬈ — Fall 2022
- Developed interactive to-do list web app with local save function through vanilla **HTML, CSS & JS**.
- Used Chrome's local storage API for saving user data.
- Followed typical **git/GitHub** version control workflow during implementation.

LEADERSHIP

President & Founder - Free and Open-Source Software Club at UTEP — Spring 2024 - Present
- Encouraged participation in open-source projects through workshops, info sessions, competitions, and social events.

Treasurer - Association for Computing Machinery at UTEP — Fall 2022 - Present
- Planned and executed the Sun City Hackathon; a three-day competition about using AI for novel applications.
- Promoted side-projects and research by hosting informational and technical workshops to 40+ students each semester.