ASHKAN ARABI

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EDUCATION

Bachelor of Science in Computer Science, Mathematics Minor   Graduating 05/26
University of Texas at El Paso, El Paso, TX   GPA: 3.94

                                                                                                                                     Major GPA: 4.00

Relevant coursework: Object-Oriented Programming, Data Structures & Algorithms, Operating Systems

SKILLS

Languages: Python(advanced), Java(advanced), Vala(mid), HTML/CSS(mid), JavaScript(mid), UML(mid), Bash(mid), Haskell(mid), LaTeX(novice), C++(novice) , C(novice), SQL(novice)
Tools: Linux(advanced), Git(advanced), GTK(mid), PyTorch(mid), TensorFlow(mid), NumPy(mid),Pandas(mid),Matplotlib(novice)

EXPERIENCE

Upcoming Information Technology Intern: Texas Instruments, Dallas, TX   May - August 2024

Undergraduate Research Assistant: UTEP, El Paso, TX   January 2024 - present
- Contributed to creation of Autistic vs neurotypical speech classifier by using AI/ML to synthesize training data.
- Developed an **accent-changer model** ⤢ able to convert foreign English accents to native using **HuggingFace** pretrained models through their **Python** API.
- Implemented a **neural style-transfer model** ⤢ in **PyTorch** to learn PyTorch & explore usage for accent-changing.
- Reduced evaluation script runtime from 24+ hours to 10 minutes by rewriting looped tasks as higher-dimension tensor operations.

Open-Source Contributor: GNOME Foundation, Remote   December 2023 - present
- Modernized GNOME Clocks' UI to add features such as full-screen timers and timer editing. (in progress)
- Fixed GNOME Clocks timers not progressing during system suspend by revising timer logic. (merged)
- Added functionality to world clock to show country and state when two cities have the same name. (open)
- Translated the GNOME Builder IDE to Persian.

Student Coordinator: AI4ALL, Remote   August - 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
- Contributed to the development of software for training users' weaknesses in spotting Phishing emails.
- Classified emails across 7 phishing attributes with 78% accuracy by developing multi-output NLP classification model.
- Preprocessed and visualized more than 5 datasets using **and NLTK** to use as training material for model.

Undergraduate Research Intern: Temple University, Philadelphia, PA   June - July 2023
- Published **paper** ⤢ 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.
- 1st place for the best REU site final presentation.

PROJECTS

CLI Car Dealership   April 2024
- Wrote an Object-Oriented car dealership software in **Java** following MVC architecture, with 2300+ lines of code.
- Used Git & GitHub features such as pull requests, merges, branches, and rebasing for collaborating in team of 3.

Linux Timer ⤢   January 2024
- Developed a **Linux** timer application using **GTK & Vala**, using an event-driven architecture.
- Implemented functionalities for starting, pausing, resetting, and editing timers, using different GTK4 widgets & signals.

Tic Tac Toe Web App ⤢   Fall 2022
- Developed a tic-tac-toe game using **HTML, CSS, and JavaScript**, with a special focus on the visuals.
- Used JavaScript to manage game state, handle player moves, and determine game outcomes.

LEADERSHIP

President & Founder - Free and Open-Source Software Club at UTEP ⤢   December 2023 - Present
- Recruited team of 6 officers to host weekly workshops on git, Linux, Vim, open-source contributing, and more.
- Hosted UTEP's **first open-source hackathon**, OpenHack, attended by more than 12 first-time contributors.

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.