ASHKAN ARABI

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EDUCATION

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

EXPERIENCE

Incoming Software Engineering Intern: Capital One, McLean, VA　　　　　June 2025 - August 2025

Information Technology Intern: Texas Instruments, Dallas, TX　　　　　　May 2024 - August 2024
- Set up infrastructure for **robotic automation** for chip manufacturing by deploying **Docker** containers on **Linux** servers.
- Ensured system reliability through unit and integration testing with Insomnia before final deployment.
- Coordinated with **10+** stakeholders to configure **Oracle SQL** databases, **REST APIs**, and documentation.

Open-Source Contributor: GNOME Foundation, Remote　　　　　　　December 2023 - June 2024
- Collaborated in development of GNOME Clocks; **used by thousands of Linux users** to track time.
- Added full-screen timers and timer editing using **Vala** bindings and **GTK** components (video demo ↗).
- Authored functionality for world clock to show country and state when two cities have the same name.

Undergraduate Research Assistant: UTEP, El Paso, TX　　　　　　　　　January 2024 - May 2024
- Contributed to creation of Autistic vs neurotypical speech classifier by synthesizing training data.
- Built accent-changer model ↗ model using **HuggingFace** pretrained AI/ML to change foreign English accents to native.
- Implemented neural style-transfer model ↗ in **PyTorch** to learn PyTorch & explore usage for accent-changing.
- Reduced evaluation script runtime **by 14400%** by rewriting loops as higher-dimension tensor operations.

Volunteer Researcher: UTEP, El Paso, TX　　　　　　　　　　　　　　August 2023 - 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 designing a **TensorFlow** NLP machine learning model.
- Preprocessed and visualized more than 5 datasets using **Python** and **NLTK** to use as training material for model.

Undergraduate Research Intern: Temple University, Philadelphia, PA　　　　June 2023 - July 2023
- Wrote **first-author publication** ↗ about using Wi-Fi for hand gesture recognition on phones.
- Developed CNN architecture to classify 5 gestures from 4 people in 6 scenarios using **Keras**.
- **1st place** for the best REU site final presentation.

SIDE PROJECTS

News Bridge (BorderHack 2024 submission) ↗　　　　　　　　　　　Team of 4 | September 2024
- Increased access to diverse news by creating app for daily briefings from RSS feeds, regardless of source language.
- Used **Flask** with **PostgreSQL** to fetch users' news sources and pass them to LLM and TTS models for summarization.
- Programmed interactive web UI using **Redux.JS** and **React.JS**.

Vocabulary Courses (HackWesTX 2024 submission) ↗　　　　　　　　Team of 4 | September 2024
- Built full-stack web-app to help non-native speakers practice their pronunciation using spaced repetition.
- Conceived custom scheduling algorithm on **Node.JS** and **MongoDB** (noSQL) back-end to fetch the next practice word.
- Developed and tested **REST API interfaces** for team members to use in the front-end.

blog.ashkan.zone ↗　　　　　　　　　　　　　　　　　　　　　　　　　Solo | August 2024
- Used **React.JS**, **TypeScript**, and **TailwindCSS** to develop blog UI.
- Added Markdown support with **Gatsby**, utilizing **GraphQL** to fetch blog entries.

Advent of Code 2022 - Annual Programming Challenge ↗　　　　　　　　　　Solo | August 2023
- Coded **C++** solutions to 12 of 25 data structures & algorithms challenges.
- 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
- Led team of 6 officers to host weekly workshops on git, Linux, Vim, open-source software development, and more.
- Hosted UTEP's **first open-source hackathon**, OpenHack, attended by more than **12 first-time contributors**.

SKILLS

Languages: Python(advanced), Java(advanced), JavaScript(advanced), TypeScript(advanced), SQL(mid), Vala(mid), HTML/CSS(mid), UML(mid), Bash shell scripting(mid), Haskell(mid), C++(novice), C(novice),
Tools: Unix/Linux(advanced), Git(advanced), GitHub(advanced), PyTorch(mid), TensorFlow(mid), NumPy(mid), ReactJS(mid), Pandas(mid), Docker(mid), Flask(mid), Redux(mid), Node.JS(mid), PostgreSQL(mid), MySQL(mid), RabbitMQ(novice),