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**

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**.

EXPERIENCE

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

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

GNOME Foundation: Open-Source Contributor   December 2023 - June 2024 | Remote
- 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.

UTEP: Undergraduate Research Assistant   January 2024 - May 2024 | El Paso, TX
- 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.

Temple University: Undergraduate Research Intern   June 2023 - July 2023 | Philadelphia, PA
- 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.

PROJECTS

Newsbridge ⬈   Team of 4 | September 2024 - present
- Increased access to diverse news by creating an AI RSS news translator & orator with **54 GitHub stars**.
- Implemented a microservice architecture using **Docker Compose**, for components to scale independently.
- Used **FastAPI** 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**.

Flirtify ⬈   Team of 4 | November 2024 - present
- Created an Android chat app that uses Google's **Gemini API** to add a flirting tone to all sent messages.
- Used **Flutter (Dart)** to create the mobile UI and **Firebase** to enable instant communication.

Vocabulary Courses - HackWesTX 2024 ⬈   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.

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

PWAANG - a board game written in Haskell ⬈   Solo | May 2024
- Implemented a full-fledged board game in **Haskell**, pushing myself to learn functional programming.

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), Kubernetes(novice),