

ASHKAN ARABI

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EDUCATION

Bachelor of Science in Computer Science, Minor in Mathematics
The University of Texas at El Paso

Graduating May 2026
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.
- Increased evaluation script speed by **144x** reimplementing KNN in PyTorch to utilize GPU.

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 **55 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), Dart(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),