

# 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 - March 2025

- Scaled UTEP's first open-source-focused student organization from **0 to 264 members in 3 semesters**.
- Organized **47 workshops, personally presenting 20**, covering technical topics such as Git, Linux, Django, and more.
- Hosted UTEP's **first open-source hackathon**, OpenHack, attended by **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 !\[\]\(f9e62ae797645c5367e33d9390832789\_img.jpg\)](#)).
- 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 !\[\]\(693fcb3caaca16f960792dd4ef78f66d\_img.jpg\)](#) model using **HuggingFace** pretrained AI/ML to change foreign English accents to native.
- Implemented [neural style-transfer model !\[\]\(9c6bb19b0f713ce4c978fc97945488c7\_img.jpg\)](#) in **PyTorch** to learn PyTorch & explore usage for accent-changing.
- Increased evaluation script speed by **144x** reimplementing KNN in PyTorch to utilize GPU.

## PROJECTS

### HackerHunt

Solo | January 2025 - present

- Democratized collaboration by making a platform for UTEP students to find collaborators for technical sideprojects.
- Used **Django + ChakraUI + Redux + React-Router** to create fast, state-of-the-art fullstack webapp.

### Backlogz

Team of 4 | April 2025

- Boosted personal productivity by creating an app to generate 90-second podcasts based on users' backlog of interesting topics.
- Shipped app for **Android, iOS, and web** by using **React Native** and **Expo-Router** cross-platform frameworks.
- Won **3rd place** in SFHacks 2025's startup track.

### Video Stabilizer

Solo | April 2025

- Created a video stabilizer using **OpenCV**, ORB feature matching, and **RANSAC** to reduce camera shake in real-time footage.

### Flirtify

Solo | December 2024 - January 2025

- 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.

### Newsbridge

Team of 4 | September 2024 - December 2024

- 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**.

### Vocabulary Courses

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.

## 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),