ASHKAN ARABI

(915) 888 - 9801 • aarabimian@miners.utep.edu • linkedin.com/in/ashkan-arabi • github.com/AshkanArabim

EDUCATION

Bachelor of Science in Computer Science, Minor in Mathematics <div align="right">Graduating May 2026</div>
The University of Texas at El Paso <div align="right">Major GPA: 4.00</div>

EXPERIENCE

Incoming Software Engineering Intern: Capital One, McLean, VA <div align="right">June 2025 - August 2025</div>

Information Technology Intern: Texas Instruments, Dallas, TX <div align="right">May 2024 - August 2024</div>
- 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 <div align="right">December 2023 - June 2024</div>
- 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 <div align="right">January 2024 - May 2024</div>
- 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 <div align="right">August 2023 - October 2023</div>
- 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 **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 <div align="right">June 2023 - July 2023</div>
- 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) ↗ <div align="right">Team of 4 | September 2024</div>
- 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) ↗ <div align="right">Team of 4 | September 2024</div>
- 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 ↗ <div align="right">Solo | August 2024</div>
- 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 ↗ <div align="right">Solo | May 2024</div>
- Implemented a full-fledged board game in **Haskell**, pushing myself to learn functional programming.

LEADERSHIP

President & Founder - Free and Open Source Software Club at UTEP ↗ <div align="right">December 2023 - Present</div>
- 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),