Ashkan Arabi

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EDUCATION

Master of Science, Artificial Intelligence — December 2026
Bachelor of Science, Computer Science — December 2025
The University of Texas at El Paso — GPA: 3.93

EXPERIENCE

Capital One: Software Engineering Intern — June 2025 - August 2025
- Built & deployed anomaly-detection pipeline for Capital One's card decisioning system, notifying SREs of malfunctioning ML models and reducing incident-response time **from 4+ hours to <15 mins**.
- Wrote highly optimized **Databricks SQL** & evaluated warehouse sizes to minimize pipeline cost & latency.
- Extended **Java**-based lineage plugin to log custom data transformations using a YAML specification.
- Applied **test-driven development** using **JUnit** and **Mockito** to ensure robust, maintainable code.

Texas Instruments: Information Technology Intern — May 2024 - August 2024
- Reduced production line costs by ~**34%** by deploying **Docker** infrastructure for wafer transporter robots.
- Met with 10+ stakeholders to configure **Oracle SQL** databases, REST APIs, and documentation.

GNOME Foundation: Open-Source Contributor — December 2023 - June 2024
- Implemented timer editing and full-screen timers in GNOME Clocks, **used by 40+ million** to track time.
- Opened **3 PRs**, reviewed code with maintainers, and merged my **GTK + Vala** components.

UTEP Vision and Learning Lab: Undergraduate Research Assistant — January 2024 - May 2024
- Contributed to creation of autistic vs neurotypical speech classifier by creating synthetic training data.
- Built tone-changer by fine-tuning **HuggingFace** models to change normal tone to autistic.
- Implemented neural style-transfer model in **PyTorch** to explore usage for accent-changing.
- Increased evaluation script performance by **144x** reimplementing KNN in PyTorch to utilize GPU.

Temple University: Research Intern — June 2023 - July 2023
- Published paper in **ACM MobiHoc** about using Wi-Fi CSI for hand gesture recognition on smartphones.
- Developed CNN model to classify 5 gestures in 6 scenarios using **TensorFlow** with **>90% accuracy**.

PROJECTS

hackerhunt.tech ⬈ | Django, React, TypeScript, Nginx, Docker, AWS SES
- Democratized collaboration by making a platform for students to find collaborators for technical projects.
- Raised **$1000 in pre-seed funding** for market validation advertisements, helping to get **30+ beta testers**.

Newsbridge (news.ashkan.zone) ⬈ | FastAPI, React, PostgreSQL, JavaScript, Docker
- Increased access to diverse news by creating an AI RSS news translator & orator with **55 GitHub stars**.
- Ensured load-balancing & scaling capacity by using a **Docker Compose microservice architecture**.

LEADERSHIP

President & Founder - FOSS Club — 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 topics such as Git, Linux, & Kubernetes.

SKILLS

Coursework: data structures and algorithms, operating systems, parallel computing, deep learning, machine learning,
Languages: Python, Java, JavaScript, TypeScript, SQL, Go (Golang), Dart, Vala, HTML/CSS, Bash shell,
Libraries: ReactJS, PyTorch, TensorFlow, scikit-learn, NumPy, Django, JUnit, FastAPI, Flask,
Tools: Linux, Git, GitHub, Docker, AWS, Google Cloud(GCP), MongoDB(NoSQL), PostgreSQL, MySQL,