

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 McLean, VA
<ul style="list-style-type: none">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 Dallas, TX
<ul style="list-style-type: none">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 Remote
<ul style="list-style-type: none">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 El Paso, TX
<ul style="list-style-type: none">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 Philadelphia, PA
<ul style="list-style-type: none">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

Ashdocs (in progress) Go(Golang), Websockets
<ul style="list-style-type: none">Created Google Docs clone in Go, able to handle multiple users' parallel real-time edits on documents.
hackerhunt.tech  Django, React, TypeScript, Nginx, Docker, AWS SES
<ul style="list-style-type: none">Democratized collaboration by making a platform for students to find collaborators for technical projects.Minimized costs by self-hosting HTTPS page using Nginx, Docker Compose, and manual DNS setup.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
<ul style="list-style-type: none">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.

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, Spring Boot,
Tools: Linux, Git, GitHub, Docker, AWS, Google Cloud(GCP), MongoDB(NoSQL), PostgreSQL, MySQL, Kafka, Cursor,
Concepts: containerization, unit testing, multi-threading, concurrency, AI/ML, LLMs, CI/CD, DevOps, code review,