

# Ashkan Arabi

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## EDUCATION

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

## EXPERIENCE

<b>Capital One: Software Engineering Intern</b>	June 2025 - August 2025   McLean, VA
<ul style="list-style-type: none"><li>Built &amp; deployed anomaly-detection pipeline for Capital One's card decisioning system, notifying SREs of malfunctioning ML models and reducing incident-response time <b>from 4+ hours to &lt;15 mins</b>.</li><li>Wrote highly optimized <b>Databricks SQL</b> &amp; evaluated warehouse sizes to minimize pipeline cost &amp; latency.</li><li>Extended <b>Java</b>-based plugin to log custom <b>Apache Spark</b> data lineage events using a YAML specification.</li><li>Applied <b>test-driven development</b> using <b>JUnit</b> and <b>Mockito</b> to ensure robust, maintainable code.</li></ul>	
<b>Texas Instruments: Information Technology Intern</b>	May 2024 - August 2024   Dallas, TX
<ul style="list-style-type: none"><li>Reduced production line costs by ~<b>34%</b> by deploying <b>Docker</b> infrastructure for wafer transporter robots.</li><li>Met with 10+ stakeholders to configure <b>Oracle SQL</b> databases, REST APIs, and documentation.</li></ul>	
<b>GNOME Foundation: Open-Source Contributor</b>	December 2023 - June 2024   Remote
<ul style="list-style-type: none"><li>Implemented timer editing and full-screen timers in GNOME Clocks, <b>used by 40+ million</b> to track time.</li><li>Opened <b>3 PRs</b>, reviewed code with maintainers, and merged my <b>GTK + Vala</b> components.</li></ul>	
<b>UTEP Vision and Learning Lab: Undergraduate Research Assistant</b>	January 2024 - May 2024   El Paso, TX
<ul style="list-style-type: none"><li>Contributed to creation of autistic vs neurotypical speech classifier by creating synthetic training data.</li><li>Built tone-changer by fine-tuning <b>HuggingFace</b> models to change normal tone to autistic.</li><li>Implemented neural style-transfer model in <b>PyTorch</b> to explore usage for accent-changing.</li><li>Increased evaluation script performance by <b>144x</b> reimplementing KNN in PyTorch to utilize GPU.</li></ul>	
<b>Temple University: Research Intern</b>	June 2023 - July 2023   Philadelphia, PA
<ul style="list-style-type: none"><li>Published paper in <b>ACM MobiHoc</b> about using Wi-Fi CSI for hand gesture recognition on smartphones.</li><li>Developed CNN model to classify 5 gestures in 6 scenarios using <b>TensorFlow</b> with <b>&gt;90% accuracy</b>.</li></ul>	

## PROJECTS

<b>Ashdocs (in progress)</b>   Go(Golang), Websockets
<ul style="list-style-type: none"><li>Created Google Docs clone in Go, able to handle multiple users' parallel real-time edits on documents.</li></ul>
<b>hackerhunt.tech</b>    Django, React, TypeScript, Nginx, Docker, AWS SES
<ul style="list-style-type: none"><li>Democratized collaboration by making a platform for students to find collaborators for technical projects.</li><li>Minimized costs by self-hosting HTTPS page using <b>Nginx</b>, <b>Docker Compose</b>, and manual DNS setup.</li><li>Raised <b>\$1000 in pre-seed funding</b> for market validation advertisements, helping to get <b>30+ beta testers</b>.</li></ul>
<b>Newsbridge (news.ashkan.zone)</b>    FastAPI, React, PostgreSQL, JavaScript, Docker
<ul style="list-style-type: none"><li>Increased access to diverse news by creating an AI RSS news translator &amp; orator with <b>55 GitHub stars</b>.</li><li>Ensured load-balancing &amp; scaling capacity by using a <b>Docker Compose microservice architecture</b>.</li></ul>

## 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,