

# Pranitha Gaddam

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## EDUCATION

<b>University of North Texas</b> <i>Bachelor of Science in Computer Science</i> <ul style="list-style-type: none"><li>• <b>Cumulative GPA: 3.95</b>   Awarded academic merit scholarship</li><li>• Certificate in Cybersecurity</li><li>• Relevant Coursework: Data Structures, Algorithms, Computer Networks, Systems Programming, Operating Systems, Software Engineering, Database Systems, Artificial Intelligence (AI)</li></ul>	Denton, TX <i>Aug. 2021 – Dec. 2025</i>
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## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, C++, C#, SQL  
**Frameworks & Libraries:** Spring Boot, Node.js, FastAPI, .NET, React, Angular, Next.js  
**Databases & Tools:** MongoDB, PostgreSQL, MySQL, Elasticsearch, Kibana, Redis, Unix/Linux  
**Cloud/DevOps:** Microsoft Azure, AWS, Kubernetes, Docker, Git, CI/CD pipelines  
**AI/ML:** LangChain, FAISS, RAG Pipelines, Pinecone, TensorFlow, PyTorch

## EXPERIENCE

<b>J.B. Hunt Transport Services, Inc.</b> <i>Software Engineering Intern</i> <ul style="list-style-type: none"><li>• Developed <b>Angular/TypeScript</b> UI features for an enterprise platform with <b>35,000+</b> daily users.</li><li>• Refactored Spring Boot microservices and tuned MongoDB/Elasticsearch queries, improving latency under heavy traffic.</li><li>• Implemented <b>Redis caching</b> for RESTful APIs backed by BigQuery, cutting response times by <b>90%+</b>.</li><li>• Built a VS Code AI plugin to offer design-system snippets with <b>RAG</b>, reducing developer lookup time by nearly half.</li><li>• Achieved <b>95%+</b> coverage by building new unit (Jest, JUnit) and E2E (Cypress) test suites and refactoring legacy tests.</li><li>• Improved deployment reliability with Kubernetes CI/CD on <b>Azure</b>, using canary releases in Agile workflows.</li></ul>	Lowell, AR <i>May 2025 – July 2025</i>
<b>University of North Texas</b> <i>Accessibility Research</i> <ul style="list-style-type: none"><li>• Evaluated <b>50+</b> Unity accessibility plugins against <b>WCAG 2.0</b>, uncovering gaps in visual, auditory, and interaction.</li><li>• Developed a plugin with <b>C#/.NET</b> automating <b>14</b> accessibility validations, adding coverage missing from other tools.</li><li>• Streamlined accessibility validation with auto-generated compliance reports, reducing manual QA effort by over half.</li></ul>	Denton, TX <i>Aug 2024 – Dec 2024</i>

## PROJECTS

<b>Multi-Modal Knowledge Assistant</b>   <i>Python, FastAPI, Next.js, LangChain, FAISS</i> <ul style="list-style-type: none"><li>• Built ingestion pipelines to process multi-modal inputs (text, images, videos) into a unified knowledge base.</li><li>• Enabled <b>RAG-powered queries</b> with LangChain + FAISS for scalable retrieval across diverse data types.</li><li>• Developed RESTful <b>FastAPI</b> endpoints and Next.js interfaces to handle user queries and interact with data.</li></ul>	Aug 2025 (Ongoing)
<b>Indoor Navigation System</b>   <i>JavaScript, Bootstrap, PostgreSQL, Open-source tools (QGIS, JOSM)</i> <ul style="list-style-type: none"><li>• Built a <b>multi-floor</b> routing system for UNT's engineering building with real GIS data, showcased at a tech expo.</li><li>• Modeled graph-based spatial structures (nodes, edges, floor connectors) in <b>PostgreSQL</b> for path storage.</li><li>• Applied <b>routing algorithms</b> (Dijkstra) for pathfinding, achieving <b>95%+</b> accuracy against expected routes.</li></ul>	May 2024
<b>Portfolio</b>   <i>React, TypeScript, Next.js, Three.js, Tailwind CSS, Vercel</i> <ul style="list-style-type: none"><li>• Designed and deployed a modern, responsive portfolio with a <b>3D</b> particle background and Framer Motion animations.</li><li>• Built reusable <b>shadcn/ui</b> components and engineered a custom API endpoint for secured form handling.</li></ul>	July 2025

## LEADERSHIP & INVOLVEMENT

<b>UNT Eagle Ambassador</b> <ul style="list-style-type: none"><li>• Led campus tours for groups of up to <b>70</b> visitors, represented the university at special events, trained and mentored <b>9</b> new ambassadors.</li></ul>	Aug 2024 – May 2025
<b>Organizations:</b> IEEE, SWE (Society of Women Engineers), CodePath Alumni, Rewriting the Code	