

Pranitha Gaddam

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EDUCATION

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

Languages: Python, Java, JavaScript, TypeScript, C++, C#, Bash
Frameworks & Libraries: Spring Boot, Node.js, Express.js, React, Angular, Next.js, Tailwind CSS
Databases & Tools: PostgreSQL, MySQL, MongoDB, Elasticsearch, Redis, Git, Postman, Figma, Unix/Linux
Cloud/DevOps & Testing: Kubernetes, Docker, Microsoft Azure, AWS, JUnit, Jest, Cypress
AI/ML: LangChain, FAISS, RAG Pipelines, Pinecone, TensorFlow, PyTorch

EXPERIENCE

J.B. Hunt Transport Services, Inc. <i>Software Engineering Intern</i> <ul style="list-style-type: none">• Developed platform UI features with Angular for a Fortune 300 enterprise with 35,000+ daily users.• Refactored SpringBoot microservices and tuned MongoDB/Elasticsearch queries to improve latency for heavy traffic.• Implemented Redis caching for APIs fetching from BigQuery, cutting response times by 90%+.• Built VS Code AI assistant to offer design-system snippets with RAG, reducing developer lookup time by nearly half.• Strengthened deployment reliability with Kubernetes CI/CD on Azure using canary releases and automated testing.	Lowell, AR <i>May 2025 – July 2025</i>
University of North Texas <i>Accessibility Research</i> <ul style="list-style-type: none">• Evaluated 50+ Unity accessibility plugins against WCAG 2.0, uncovering gaps in visual, auditory, and interaction.• Developed a Unity plugin with C# automating 14 accessibility validations, adding coverage missing from other tools• Streamlined accessibility validation with auto-generated compliance reports, reducing manual QA effort by over half.	Denton, TX <i>Aug 2024 – Dec 2024</i>

PROJECTS

Multi-Modal Knowledge Assistant <i>Python, TypeScript/Next.js, LangChain, FAISS</i> <ul style="list-style-type: none">• Engineered an AI system to ingest multi-modal inputs into a unified knowledge base.• Enabled RAG-powered queries with LangChain + FAISS for scalable retrieval across diverse data types.• Developed customizable agents leveraging this unified context, deployable in-app or as external API services.	Aug 2025 (Ongoing)
Indoor Navigation System <i>JavaScript, Bootstrap, PostgreSQL, Open-source tools (QGIS, JOSM)</i> <ul style="list-style-type: none">• Built a multi-floor routing system for UNT's engineering building with real GIS data, showcased at a tech expo.• Modeled graph-based spatial structures (nodes, edges, floor connectors) in PostgreSQL for path storage.• Applied routing algorithms (Dijkstra) for pathfinding, achieving 95%+ accuracy against expected routes.	May 2024
Portfolio <i>React, TypeScript, Next.js, Three.js, Tailwind CSS, Vercel</i> <ul style="list-style-type: none">• Designed and deployed a modern, responsive portfolio with a 3D particle background and dark/light mode.• Built reusable shadcn/ui components, Framer Motion animations, and custom API endpoint for secured form handling	July 2025

LEADERSHIP & INVOLVEMENT

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