

Pranitha Gaddam

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EDUCATION

University of North Texas

Bachelor of Science in Computer Science

Denton, TX

Aug. 2021 – Dec. 2025

- 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)

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

J.B. Hunt Transport Services, Inc.

Lowell, AR

Software Engineering Intern

May 2025 – July 2025

- Developed **Angular/TypeScript** UI features for an enterprise platform with **35,000+** daily users.
- Refactored Spring Boot microservices and tuned MongoDB/Elasticsearch queries, improving latency under heavy traffic.
- Implemented **Redis caching** for RESTful APIs backed by BigQuery, cutting response times by **90%+**.
- Built a VS Code AI plugin to offer design-system snippets with **RAG**, reducing developer lookup time by nearly half.
- Achieved **95%+** coverage by building new unit (Jest, JUnit) and E2E (Cypress) test suites and refactoring legacy tests.
- Improved deployment reliability with Kubernetes CI/CD on **Azure**, using canary releases in Agile workflows.

University of North Texas

Denton, TX

Accessibility Research

Aug 2024 – Dec 2024

- Evaluated **50+** Unity accessibility plugins against **WCAG 2.0**, uncovering gaps in visual, auditory, and interaction.
- Developed a plugin with **C#/.NET** 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.

PROJECTS

Multi-Modal Knowledge Assistant | Python, FastAPI, Next.js, LangChain, FAISS

Aug 2025 (Ongoing)

- Built ingestion pipelines to process multi-modal inputs (text, images, videos) into a unified knowledge base.
- Enabled **RAG-powered** queries with LangChain + FAISS for scalable retrieval across diverse data types.
- Developed RESTful **FastAPI** endpoints and Next.js interfaces to handle user queries and interact with data.

Indoor Navigation System | JavaScript, Bootstrap, PostgreSQL, Open-source tools (QGIS, JOSM)

May 2024

- 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.

Portfolio | React, TypeScript, Next.js, Three.js, Tailwind CSS, Vercel

July 2025

- Designed and deployed a modern, responsive portfolio with a **3D** particle background and Framer Motion animations.
- Built reusable **shadcn/ui** components and engineered a custom API endpoint for secured form handling.

LEADERSHIP & INVOLVEMENT

UNT Eagle Ambassador

Aug 2024 – May 2025

- Led campus tours for groups of up to **70** visitors, represented the university at special events, trained and mentored **9** new ambassadors.

Organizations: IEEE, SWE (Society of Women Engineers), CodePath Alumni, Rewriting the Code