

Pranitha Gaddam

1-234-244-7145 | gaddam.pranitha29@gmail.com | linkedin.com/in/pranitha-gaddam | github.com/Pranitha-Gaddam | pranithagaddam.site

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#, 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.

Lowell, AR

Software Engineering Intern

May 2025 – July 2025

- 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.

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 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.

PROJECTS

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

Aug 2025 (Ongoing)

- 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.

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

- Desgined 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

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), Rewriting the Code