Pranitha Gaddam

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EDUCATION

University of North Texas — Denton, TX
Bachelor of Science in Computer Science — *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++, Bash
Frameworks & Libraries: Spring Boot, Node.js, Express.js, React, Angular, Next.js
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
Application Development Intern — *May 2025 – July 2025*
- Built 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 automating **14 accessibility validations**, introducing features not covered by existing 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 | *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 with Framer Motion animations and secured form handling via custom API.

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