Thomas Conner

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EDUCATION

University of Texas at Dallas **May 2025 (Expected)**
Bachelor of Science, Software Engineering **GPA:** 3.76

EXPERIENCE

Data Structures and Algorithms Grader **Jan 2025 – Present**
University of Texas at Dallas
- Evaluated Java and C++ code for correctness and Efficiency
- Held office hours and tutored students in technical and conceptual knowledge

Undergraduate Research Assistant **Apr 2023 – Aug 2024**
Materials Science Lab, University of Texas at Dallas
- Implemented Sci-Kit models, reducing simulation runtime by 97%, maintaining standard error of 5%
- Designed custom Matplotlib visualizations to represent high-dimensional data (5+ dimensions)
- Refactored and documented legacy codebase, improving maintainability
- Automated simulation workflows with Python and Bash scripts for seamless execution on Linux

PROJECTS

ARGO Marketing Intelligence Platform
- Integrated LLM-powered querying for Google Analytics data using Google Gemini
- Developed real-time data visualizations with automated natural language trend analysis using Gemini
- Implemented custom REST APIs with documentation and automated unit tests in Jest
- Containerized application with a multi-stage Dockerfile using Node.js on Alpine for minimal image size

Comet Cupboard Inventory Tracking System
Developer, Project Partner Liaison
- Developed a customer-facing checkout system, reducing average check-out time by 70%
- Redesigned UI using Nuxt.JS for 60% more device compatibility while ensuring FERPA compliance
- Developed REST APIs and unit tests using Postman to interface with PostgreSQL database
- Coordinated system integration with the partner's platform to ensure seamless functionality

TheLab.ms Kiosk/Calendar System
Developer, Project Partner Liaison
- Replaced faulty database with custom REST APIs, enabling seamless integration with partner systems
- Implemented robust error-handling using Postman, reducing software failure by 97%
- Integrated USB RFID/Card Reader for quicker RSVP to events and improved user experience

EXTRACURRICULAR

Engineering Projects in Community Service (EPICS)
- Engaged with non-technical stakeholders to identify technical needs and provide software solutions

ACM Research
- Implemented a tool to generate activity graphs based on spatiotemporal parameters for application in accessibility efforts for blind-vision-impaired individuals

SKILLS

Languages: Python, Java, C, C++, JavaScript, SQL, HTML/CSS, Bash
Technologies/Frameworks: Git, React, NextJS, PostgreSQL, AWS, Docker, Linux CL