

THANE TATE

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[Portfolio Website](#) | [LinkedIn](#) | [GitHub](#)

EDUCATION

Expected Graduation - 2026

University of North Texas - Bachelors of Science, Computer Science, Minor in Mathematics

TECHNICAL SKILLS

Languages & Frameworks | NextJS, Javascript, MongoDB, TypeScript, C, C++, CSS, HTML

Developer Tools | Git/Github, Visual Studio, Agile Methodologies

EXPERIENCE & PROJECTS

Technician | Andy B's Entertainment

Jan 2024 - Present

- Diagnosed and resolved software and hardware issues with bowling lanes and arcade games, applying systematic troubleshooting techniques that mirror the **debugging processes** in software development.
- **Collaborated** with team members to ensure timely resolution of technical issues, strengthening my **communication and teamwork** skills in a fast-paced environment.
- Developed and implemented **technical solutions** for malfunctioning systems, enhancing my ability to tackle complex problems with innovative approaches.

Full Stack Clothing Website | Personal Project

Developed a e-commerce website for a climbing apparel brand. TypeScript | NextJS | MongoDB | Paypal API | Git | Vercel

- Designed and implemented a **full-stack web application** using Next.js and TypeScript, integrating payment systems with **API's** (PayPal) and **secure authentication** (Auth.js, Google Auth).
- Deployed the application using Vercel and GitHub, with MongoDB Atlas for database management on **AWS**, ensuring reliable and scalable infrastructure.
- Enhanced the user experience with dynamic server components and optimized client-side performance using **SWR** for state management and data fetching.

Library Management System | University Project

Led a team in developing a software solution for managing library loans. C++ | Object-Oriented Programming | Git | Agile Methodologies

- Utilized **Agile methodology**, including regular sprint planning, daily stand-ups, and iterative feedback loops, to ensure continuous improvement and adaptability throughout the project's lifecycle.
- Directed the project from inception to completion, overseeing development and ensuring the efficient management of library operations.
- Applied **object-oriented** programming principles to create a scalable and maintainable codebase.
- Designed and implemented a comprehensive system for tracking loan statuses, managing book inventories, and maintaining patron records.

Shell Project | University Project

Developed a basic Unix-like shell with core command execution features C | Unix System Calls | GNU Make | Git

- Designed and implemented a shell capable of handling multiple commands, input/output redirection, and piping, leveraging POSIX system calls for robust process management.
- Applied **dynamic environment management** by modifying the PATH variable and handling path modifications for executable searches.
- Applied rigorous **error handling** and **memory management** practices to ensure reliability and stability of the shell, adhering to best practices in C programming and system-level development.
- Integrated user-friendly features such as **command parsing, directory changes, and batch file execution** to streamline user experience and automate tasks.