

# THANE TATE

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## EDUCATION

**Expected Graduation** - 2025  
**University of North Texas** - Bachelors of Science, Computer Science, Minor in Mathematics, GPA 3.8

## TECHNICAL SKILLS

**Front End** | NextJS, Javascript, TypeScript, CSS, HTML  
**Back End** | C, C++, MongoDB  
**Developer Tools** | Git, npm

## 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 debugging processes in software development.
- Developed and implemented technical solutions for malfunctioning systems, enhancing my ability to tackle complex problems with innovative approaches.
- Collaborated with team members to ensure timely resolution of technical issues, strengthening my communication and teamwork skills in a fast-paced environment.

### Clothing Website | Personal Project

*Developed a e-commerce website for climbing apparel brand.* TypeScript | Next.JS | MongoDB | Paypal | Github | Vercel

- Designed and implemented a full-stack web application using Next.js and TypeScript, integrating payment systems (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

- Directed the project from inception to completion, overseeing development and ensuring the efficient management of library operations.
- Designed and implemented a comprehensive system for tracking loan statuses, managing book inventories, and maintaining patron records.
- Applied object-oriented programming principles to create a scalable and maintainable codebase.

### Shell Project | University Project

*Developed a basic Unix-like shell with core command execution features, providing a foundational tool for system interaction.* C | Unix System Calls | GNU Make | GitHub

- Designed and implemented a shell capable of handling multiple commands, input/output redirection, and piping, leveraging POSIX system calls for robust process management.
- Facilitated 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.