

# Marcus Ellison

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## EDUCATION

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### UNIVERSITY OF NORTH TEXAS

Bachelor of Science

Major in Computer Science

Major GPA: 3.5/4.0; Cumulative GPA: 3.1/4.0

Relevant Coursework: Software Engineering; Operating Systems; Algorithms; Data Structures; Machine Learning

Denton, TX

Aug 2020 – May 2025

## WORK EXPERIENCE

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### WARP 10 AI

Contract Software Engineer

Remote

Jun 2025 – Jul 2025

- Led full-stack development of "StageRight," a comprehensive music industry analytics and career management platform, integrating 6 major music platforms and AI-powered insights to deliver actionable guidance for emerging artists
- Architected a modern React application with TypeScript, Tailwind CSS, and a scalable Convex backend, implementing real-time data synchronization, advanced state management (Zustand), and a robust data analytics infrastructure
- Developed and integrated AI-powered features including a conversational assistant and personalized recommendations using OpenAI's API, alongside extensive data visualization dashboards with 20+ interactive charts for critical performance tracking

### UNIVERSITY OF NORTH TEXAS SYSTEM

Data Communications Technician

Denton, TX

Oct 2020 – Jun 2025

- Managed and resolved 20+ weekly network and IT support tickets via ServiceNow, ensuring critical connectivity for over 32,000 university students and staff
- Executed end-to-end network infrastructure deployment, including installation, configuration, and upgrading of switches, UPS units, and developed automation scripts for VLAN changes
- Mentored and trained new technicians, while performing advanced diagnostics to remediate complex data communication issues across campus

## PROJECTS

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### DOCTOR FINDER

Apr 2025

- Developed a full-stack Doctor Finder web application using Next.js (React), TypeScript, and TailwindCSS, with Firebase (Authentication, Firestore, Cloud Functions) as the backend
- Implemented core functionalities including advanced search by specialty/location, interactive Google Maps integration, and secure patient/doctor profiles with appointment scheduling and reviews

### HARMONY

March 2025

- Developed "harmony", a cross-platform music sharing social media app using Expo/React Native and TypeScript, leveraging Supabase for robust authentication and data management
- Engineered dynamic features like Apple Music sync, real-time user following, and secure user profiles, leveraging @tanstack/react-query and react-native-mmkv for performant, scalable data management within a modular architecture

### SURVIVE THE NIGHT

May 2024

- Developed a real-time 2D/3D zombie survival game in C/C++, implementing object-oriented design for players, zombies, and environment entities
- Engineered custom physics, collision detection, and a modular particle engine within the LARC engine, emphasizing low-level systems programming and memory management

## ADDITIONAL

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**Technical Skills:** React, Next.js, C++, C, TypeScript, JavaScript, Python, PostgreSQL, Git, Networking, Linux, Shell, SwiftUI/Swift, HTML, CSS, TailwindCSS, Vercel, Nginx, VS Code, ServiceNow, Figma, Machine Learning Algorithms

**Certifications & Training:** 98-367: Security Fundamentals, 98-368: Mobility and Device Fundamentals, 98-349: Windows Operating System Fundamentals