

Joshua Hernandez

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SUMMARY

An undergraduate student with personal full-stack experience building applications using React, JavaScript, Node.js, and Python. Experienced in designing RESTful APIs and working with relational databases such as PostgreSQL and MySQL. Motivated to build efficient, scalable software solutions and continuously improve through hands-on projects and collaborative development.

SKILLS

Frontend: React, React Native, TypeScript, JavaScript, TailwindCSS, CSS, HTML

Backend: Node.js, Python, C#, C++

Database/DevOps: PostgreSQL, MySQL, Git, Docker

Skills: Data Structures, Algorithms, RESTful APIs, Debugging, Version Control

PROJECTS

Social Media Web App (Current WIP)

- Developing a full-stack social platform using React, TypeScript, JavaScript, Node.js, Express, and PostgreSQL, enabling users to register, authenticate, and interact securely.
- Implemented JWT-based authentication with browser cookies and bcrypt, securing user sessions and protecting sensitive data.
- Designing a scalable backend with RESTful APIs for posting, liking, and user search functionality, with plans for real-time updates and tweet-style content matching.

Real-time Collaborative Chat Room

- Engineered a full-stack real-time chat app using React, Node.js, Socket.IO, and WebRTC, supporting up to 20 concurrent users per room.
- Created multiple RESTful API endpoints for user authentication, room creation, and user tracking with persistent state, freeing empty rooms after 2 minutes of inactivity.
- Integrated WebRTC to enable seamless audio and video chat, alongside real-time text messaging, user presence tracking, and system notifications with latency as low as 20ms in active chat rooms.

Mobile Weather App

- Developed a weather app with real-time data from 2 external APIs using React Native and FastAPI, with secure API key handling via environment variables.
- Implemented location-based search with autocomplete, allowing users to retrieve weather data for over 10,000 locations.
- Integrated real-time weather APIs to deliver current conditions, hourly, and 10-day forecasts, including temperature, humidity, wind speed, and time zone data, updating every 5 minutes.

EDUCATION

Austin Community College

Associate of Applied Science, Computer Science

August 2023 - May 2025

Cumulative GPA: 4.0/4.0

Lamar University

Bachelor of Science, Computer Science

June 2025 - May 2027