

Joshua Hernandez

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SUMMARY

A prospective undergraduate student with personal full-stack experience with a focus on backend, building applications primarily using React, JavaScript, TypeScript, Node.js, and Python. Experienced in designing RESTful APIs and working with relational databases such as PostgreSQL and MySQL.

SKILLS

Skills: React.js, TypeScript, JavaScript, HTML/CSS, Node.js, Express.js, Postman, C#, C++, Python, FastAPI, Swift, Postgres, MySQL, SQL, Docker, Data Structures & Algorithms, REST APIs, Git, GitHub Actions, CI/CD, WebRTC, Socket.io, Swift, PowerShell, Bash, Operating Systems, Kubernetes, AWS

PROJECTS

Social Media Web App

- Developed a **full-stack** social media web app using **React**, **TypeScript**, **JavaScript**, **Node.js**, and **PostgreSQL**, containerized with **Docker** for consistent development and deployment environments.
- Implemented **JWT** auth with cookies and password hashing, including 30-day refresh tokens to maintain user sessions and profile state.
- Designed a scalable **RESTful API backend** supporting posting, liking, replying, and user search, with secure access controls and paginated fetching for infinite scrolling.

Real-Time Video & Audio Chat Rooms

- 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 **Swift** 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.

Dalamud Plugin Development

- Created custom FFXIV plugins using **C#**, **.NET**, and the Dalamud framework, featuring several **GUI** overlays, automation, and quality-of-life enhancements to streamline the gameplay experience.
- Maintained repository with version control, regular updates, and detailed documentation to support a small but active user base of **100 users**.
- Automated regeneration of 5+ repositories using **GitHub Actions workflows** with scheduled runs and version release triggers, powered by **PowerShell scripts** for streamlined maintenance.

EDUCATION

Austin Community College
Associate of Applied Science, Computer Science

August 2023 - May 2025
GPA: 4.0

Lamar University
Bachelor of Science, Computer Science

June 2025 - May 2027