

Edwin Hernandez

📍 Dallas, TX ✉ edwinhern.16@gmail.com 🌐 edwinhern 📁 edwinhern 🔗 portfolio

SKILLS

Programming Languages: C#, JavaScript/ES6+, Python 3, TypeScript

System Design: Monoliths, Microservices, CI/CD, Object-Oriented Programming, MVC Architecture, Agile Methodologies, Software Concepts

Front-End: React, React Hooks, Redux Toolkit, Tailwind, Angular, Next.js, HTML5, CSS

Back-End: .NET 6, Express, MySQL, Node, RESTful API, Serverless Functions, Unit Testing, Debugging

Tools: Amazon Web Services, Cloudflare, Docker, Git, GitHub, Jira, Jenkins, Postman, Cloud Technologies

Soft Skills: Time Management, Collaboration, Teamwork, Productivity, Fast-paced, Innovation, Resiliency

Interests: Full-Stack Development, Front-End Engineer, Automation, Mobile Application Development, AWS

EXPERIENCE

- Tesla** July 2023 – May 2024
Software Engineer II
- Collaborated to design and develop a versatile admin configuration system, enabling customizable profiles and advanced access controls for Payroll Users. Simplifying configuration in a high scale to **impact millions of employees**.
 - Engineered a **reusable query builder component** using **react-query-builder**, resulting in an internal component for Tesla's **community React components**.
- Tesla** August 2022 – December 2022
Software Engineer Intern
- Boosted a 30% increase in code coverage for unit and integration testing with .NET Core 6 and C# APIs.
 - Devised and implemented five user-centric UI components using Angular, effectively resolving significant usability issues.
- JPMorgan Chase & Co.** June 2022 – August 2022
Software Engineer Intern
- **Launched a Java/Spring Boot batch application** for processing over **100,000 US loans**, ensuring business requests were met.
 - Formulated and integrated a **custom API** enhancing third-party tool interaction.
- Engineer's United** August 2020 – February 2022
Technical Lead
- Orchestrated HackUNT, North Texas' flagship hackathon, drawing **400+ participants** and managing end-to-end coordination, from initial planning to successful execution.
 - Secured sponsorships with **GitHub** and **JPMorgan Chase & Co.** through targeted outreach, fostering key collaborative relationships.
- Seizing Every Opportunity (SEO)** June 2021 – August 2021
Tech Developer
- Mastered full-stack development skills, including Git, MySQL, Django, and CI/CD with Heroku, in an intensive bootcamp internship.
 - Reduced feature errors by 65% through extensive testing and honed pair programming skills, significantly enhancing code coverage.

PROJECTS

- Express TypeScript Boilerplate 2024: A Cutting-Edge Backend Development Template** 🔗
Tech Stack: Express.js, TypeScript, Docker, Jest, Supertest, npm
- Implemented a modern Express + TypeScript backend template to fill the gap for a **functional programming-oriented**, up-to-date framework, addressing compatibility and maintenance challenges.
 - Integrated Helmet, CORS, and rate-limiter to elevate security and performance, setting for a lightweight, secure backend template.
- HernandezServer: Self-Hosted Home Server**
Tech Stack: Docker, Cloudflare, Nginx, VPN, Tailscale, Ubuntu/Linux
- Engineered a versatile home server, transitioning through multiple OS to Unraid for optimal performance and maintenance, consolidating streaming, password management, and bot services.
 - Secured and streamlined access with a reverse proxy and port forwarding, enhancing system security with tailored firewall rules and authentication protocols.
- FireTracker: A Wildfire Detection Website**
Tech Stack: Amazon Web Services, Next.js 13, AWS Amplify, Tailwind, Mapbox GL, DynamoDB, S3 Bucket
- Developed "FireTracker," a **rapid wildfire detection and alert system**, addressing the urgent need for early fire detection to prevent escalation. Utilized AWS for **seamless hardware-software integration**, enabling real-time wildfire monitoring and notifications.
 - Enhanced user experience by optimizing web performance with dynamic lazy loading and an interactive map UI, facilitating immediate access to vital fire alert information.
- CampusTech: Status Website for University of North Texas (UNT)** 🔗
Tech Stack: React, Next.js 13, Axios
- Created a real-time status platform for UNT's key software tools, enhancing visibility and operational efficiency with Next.js and React.
 - **Reduced help desk inquiries by 30%** through effective communication and outage management, underscoring the platform's impact on university IT support.

EDUCATION

University of North Texas Denton, TX
Bachelor of Science, Computer Engineering