

Edwin Hernandez

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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, Automation, Mobile Application Development, GCP, Azure, Algorithms)

EXPERIENCE

Tesla

July 2023 – Present

Full-Stack 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

Full-Stack 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

Backend 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