

JAVIER RAMIREZ

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EDUCATION

University of Houston Downtown

Houston, TX

B.S in Computer Science

2017-2022

- **Coursework:** Data Structures & Algorithms, Software Engineering, Natural Language Processing, Object-Oriented Programming, Database Systems, Operating Systems, Internet of Things, Artificial Intelligence

TECHNICAL SKILLS

Languages: C# • Python • Java • SQL/noSQL • Dart • Kotlin • HTML • CSS • JavaScript

Frameworks: Django • Flask • Pandas • ASP.NET/.NET Core • Flutter • Bootstrap 5 • Express.js • FastAPI • PowerBI • Unity

Developer Tools: Git • GitLab/Github • Azure • AWS • Docker • VS Code • VS • Postman/Swagger

EXPERIENCE

R's Fast Electric

Contract

Software Engineer

Dec 2023 - Mar 2024

- Led the development of a dynamic and responsive website with R's Fast Electric team, utilizing .NET framework for backend development, MSSQL for efficient database management, and JavaScript/HTML/CSS for crafting interactive frontend elements.
- Leveraged Azure SQL Database to create scalable and reliable solutions, accommodating varying loads and ensuring optimal performance for R's Fast Electric's website. This contributed to a **30%** increase in website responsiveness and reliability.
- Actively participated in project meetings and brainstorming sessions, offering valuable insights and suggestions to enhance project efficiency, maintainability, and overall success.
- Developed and implemented web APIs and endpoint testing using Postman, ensuring reliability of backend functionalities.

Esync Technologies

Remote

Software Engineer Intern

Jun 2023 - Nov 2023

- Independently developed a sophisticated web application utilizing the Django framework for backend development and Vue.js for frontend, integrated with MongoDB, focused on tracking and analyzing COVID-19 trends.
- Performed web scraping of COVID-19 data from various sources using APIs, enabling real-time data updates and informed decision-making. Utilized pandas for data cleaning and refinement, ensuring data integrity and accuracy.
- Utilized Plotly and Mapbox technologies to generate dynamic and interactive visualizations, providing users with valuable insights into pandemic statistics. This significantly enhanced user engagement by **40%**.

PERSONAL PROJECTS

Fitness Tracker

2024

- Developed a Full-Stack fitness tracking application using Vue.js and Bootstrap for the frontend, .NET Core for the backend, and MSSQL for the database.
- Using Vue.js, I created components for user authentication, workout tracking, exercise logging, and measurement recording. Created responsive UI/UX design across devices using Bootstrap5/CSS3. Employed Vuex for state management and Vue Router for client-side routing, optimizing application structure and performance.
- Implemented database migrations and ensured database consistency and integrity using Entity Framework Core. Conducted testing of API endpoints using Postman, ensuring proper request/response handling, error handling, and data validation.

Blog Web App

2023

- Conceptualized, designed, and developed a Full-Stack blog application using MongoDB, Express.js, React.js, and Node.js.
- Enhanced performance by optimizing the storage and retrieval of content, including blog posts, comments, and user profiles, through a structured MongoDB database.
- Engineered a password hashing mechanism using industry-standard cryptographic algorithms, such as bcrypt, ensuring a strong defense against unauthorized access and data breaches with validation.
- Developed and implemented HTTP requests and responses, thoroughly testing endpoints utilizing the Postman API platform to ensure functionality of my HTTP endpoints.

Task Management Web App

2023

- Independently developed a dynamic .NET web application utilizing Razor Pages, C# and JavaScript. Integrated CRUD functionalities and followed the MVC design pattern, resulting in a revolutionary enhancement of task management efficiency.
- Utilized Microsoft SQL Server to architect and implement a highly scalable database backend for the web application. This involved designing optimized database schemas, implementing efficient indexing strategies, and fine-tuning database queries to ensure seamless data storage, retrieval, and management of a wide range of user tasks and information.
- Ensured data integrity and security of user inputs with server and client-side validation using C#, reducing server load by **50%**.