

# Leonel Garza

## Full Stack Developer

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## ABOUT

I am a Software Engineer with 6+ years of experience in designing, developing, and maintaining software solutions in a collaborative environment. I have professional experience using JavaScript, Node.js, React, and relational databases throughout the software development lifecycle. I possess excellent written and verbal communication skills to gather detailed information from end users, collaborate with fellow engineers, and provide information to principal engineers and management. I am passionate about technology and work on multiple personal projects using JavaScript libraries and frameworks.

## Education

### MASTER OF SCIENCE IN COMPUTER SCIENCE | JULY 2019 – MAY 2023

*Syracuse University, Syracuse, NY 13244*

Major: Computer Science GPA: 3.92/4.00

### BACHELOR OF APPLIED TECHNOLOGY | AUG 2014 - MAY 2018

*South Texas College, McAllen, TX 78501*

Major: Computer Information Technology GPA: 3.80/4.00

### ASSOCIATES OF APPLIED SCIENCES | AUG 2014 - MAY 2017

*South Texas College, McAllen, TX 78501*

Major: Computer Science GPA: 4.00/4.00

## Skills

**Design Software:** Adobe Photoshop, Adobe XD, Adobe Illustrator, Lucid Charts

**Web-based Application framework:** MEN, MERN, ASP.NET, Bootstrap, Semantic UI, Material UI

**Languages:** C++, C#, C, Java, Python, .net#, JavaScript, jQuery, SQL, Mongoose

**Mobile Application:** Android, React-Native

## Recent Projects

### AI Buy Wise - NextJS | January 2023 – PRESENT | <https://www.youtube.com/watch?v=ZT6TZpf8sBc>

Ai Buy Wise is an innovative web application designed to enhance real estate investment decisions. It leverages AI technology, to provide insightful analytics and predictions. Built on a robust tech stack, the app utilizes Next.js for a seamless user experience, Prisma ORM for efficient database management, and MongoDB as the database solution. Stripe integration ensures secure payment processing, while Jest supports thorough testing. This project is a showcase of full-stack development skills, combining React-based front-end with server-side capabilities, all tailored to optimize real estate investment strategies.

### MyEquibrand NextJS | December 2021 – PRESENT | <https://www.youtube.com/watch?v=usSNn5Gv7p4>

A NextJs application that integrates react-pdf, sql server, tailwindcss, and the graphcms API. This project makes use of ContextAPI, custom hooks, useState, useEffect, sql-server store procedure, graphql-queries, custom-nextAuth, and many more features. Web.config files and a custom server were implemented so that it could be hosted on IIS. This project mixes client-side and server-side rendering with the aid of the nextJS built-in method getServerSideProps. I also used the built-in Nextjs functions getStaticPaths() and getStaticProps() to create static files with a fallback if the file hadn't been rendered yet.

### Maciel Music Web Application | JULY 2020 – PRESENT | <https://www.mathewmacielmusic.com>

**Used tools and libraries such as:** Express, Mongoose, Stripe, SendGrid, Atlas, Compass, Git, Heroku, PUG and many others

During this project, I learned more in-depth of NodeJS and using the MVC (Model-View-Controller) architecture, as well as how to work with data in NoSQL databases (including geospatial data). Also, used server-side website rendering with Pug templates, CRUD operations with MongoDB, and Mongoose Credit card payments with Stripe. In addition, sent emails with Mail trap and SendGrid, learned about security: encryption, sanitization, rate limiting, and advanced authentication (including password reset).

# Experience

## Full Stack Developer | March 2022- Present

Bayer, Remote,

Language Used: JavaScript | (HTML, CSS) Technology

Used: React | AWS | Material UI

- Developed complex user interfaces for Bayer's application platform, utilizing React and Material-UI. Focused on creating scalable and responsive designs, incorporating accessibility standards to ensure an optimal user experience across various devices.
- With the integration of geospatial data, I developed an innovative heatmap feature. This feature allows users to visually assess the health of their plots, providing valuable insights into agricultural land management. This allowed users to quickly identify the health of their plots.
- Developed a dynamic data presentation layer using React Table, enabling users to interact with and analyze the geospatial data effectively. This implementation was crucial in enhancing user engagement and understanding of complex data sets.
- Executed query optimization and indexing on our GraphQL endpoints, significantly improving response times and system efficiency.
- Gained extensive experience in testing and debugging React components, employing tools such as Jest, Enzyme, and React Developer Tools to ensure robust and reliable applications.
- Proactively identified and resolved critical bugs, significantly enhancing the stability and performance of Bayer's products
- Architected new API endpoints and core components, markedly improving product efficiency and expanding functionality, particularly in the realm of geospatial data processing and visualization.
- Demonstrated a strong commitment to team success and project goals, consistently delivering high-quality contributions and driving significant advancements.

## Full Stack Developer | September 2018- 2022

Equibrand, Granbury, TX 76048

Language Used: C# | Python | SQL | JavaScript | jQuery | (HTML, CSS)

Technology Used: Asp.net | SQL Server | Photoshop | ADOBE XD | Brackets | AJAX

- Assisted with the creation of a dynamic form generator for our marketing team to deploy at events and trade shows to encourage new client signups, which resulted in a 34% increase in user signups. My duties consisted of creating the project's data tables, storage operations, and front end design.
- Contributed to the creation of six retail websites, helping the company to transition from private wholesale to retail and reach out to potential online customers. I built a complete c# asp.net web form application from start to finish using Data Web Services with SQL-Server. I spent a lot of effort on the front end and back end of the project. Aside from developing data tables and store operations, I also implemented AJAX, which dramatically increased load performance and gave the site a more current feel.
- Implemented integration of software using various public API's, including Google captcha (v2 & v3), Stripe, Messagebird, Ipstack, and others to improve the functionality of the application. Implemented security measures to ensure the safety of user's data and prevent unauthorized access.
- Developed a Python script to optimize the performance of the application by dynamically searching and resizing images to improve loading times and efficiency.

- Generated reports and wrote SQL statements to correct data using Microsoft Report Manager to ensure data accuracy and integrity.
- Revamped a legacy web application using the NextJS framework to ensure stability going forward and improve the performance.
- Created private API's in C# utilizing REST and CRUD principles to enable internal data fetching and updating for better data management.
- Utilized JavaScript, Ajax and HTML to implement client-side validation and dynamic updates for asynchronous communication to improve the user experience.
- Incorporated popular CSS frameworks such as Bootstrap and TailwindCSS in the front-end design to improve the visual appeal and user experience.
- Developed and maintained complex databases in Microsoft SQL Server, including the creation of tables and optimization for efficient data storage and retrieval.
- Designed and implemented stored procedures to automate and streamline database operations, enhancing system performance and user experience.
- Collaborated with cross-functional teams to analyze requirements and develop SQL Server solutions tailored to business needs.
- Proficient in C#, Python, SQL, JavaScript, jQuery, HTML, and CSS and familiar with technologies such as ASP.Net, SQL Server, Photoshop, Adobe XD, Brackets, and AJAX.

## Frontend Developer | March 2016 - September 2018

Self-Employed Web developer

Language Used: **Express | Nodejs | mongoose | JavaScript | jQuery | (HTML, CSS)**  
 Technology Used: **Visual Studios Code | Brackets | Postman | MongoDB**

- While studying for my undergrad degree, I developed and managed websites for local businesses in return for experience and self-growth.
- Responsible for designing and coding various web assets such as site pages, e-mails, icons, and social media ads.
- Improved different areas of the back-end using PHP and SQL.
- Adopted different frameworks depending on client requirements such as MEN Stack or MERN Stack.
- Implemented the use of Node JS, Express, and Mongoose to create a RESTful API on the back-end.
- Utilized GIT for version control and regularly pushed the code to GitHub.
- Developed HTML prototypes and UI deliverables such as wireframes, screen mock-ups, and interface designs.

# Personal Projects

## **GROUPUS – Android App | JULY 2020 – Present (Syracuse University)**

*Used tools and libraries such as: Material UI, Java, Adobe XD, Android Studios, Firebase*

This app was created using Android Studios, Firebase, Adobe XD, and Material UI. This project was made to replicate a social media platform that allows users to create their own personal group. Within this group, users can add other users by sending them an invitation. Once accepted they can send images to one another or communicate via text within the app. This project allowed me to get a better understanding of Android mobile development and firebase. Async Task, fragments, server-side rendering, API, recycler view, firebase implementation, services like camera and voice permission were used for this project.

## **Refugio Seguro (Church) - Web Application | Feb 2019 – Present**

*Used tools and libraries such as: NodeJS, Express, Mongoose, Stripe*

This website was created using Mongoose, Nodejs, Express, STRIPE API, Bootstrap, and Semantic UI. This is an ongoing project and have been learning so much during the process. Acquired knowledge of HTTP standards, API best practices, REST, web security, authentication, ASYNC & WAIT. In this application users have the choice to leave comments on the blog page, as well as giving a few user's authorization to have access to the Admin Page. This site is a dynamic web application giving the administrators the freedom to change their web page on the fly. The website was built with scalability in mind, allowing me to add new features when the time arrives.

## **Maciel Music Web Application | JULY 2020 – PRESENT**

*Used tools and libraries such as: Express, Mongoose, Stripe, SendGrid, Atlas, Compass, Git, Heroku, PUG and many others*

During this project, I learned more in-depth of NodeJS and using the MVC (Model-View-Controller) architecture, as well as how to work with data in NoSQL databases (including geospatial data). Also, used server-side website rendering with Pug templates, CRUD operations with MongoDB, and Mongoose Credit card payments with Stripe. In addition, sent emails with Mail trap and SendGrid, learned about security: encryption, sanitization, rate limiting, and advanced authentication (including password reset).

## **Syracuse University - Object Oriented Design - Test Harness | Mar 2021 – Jun 2021**

This project is being made in fulfillment of Syracuse University's course, CSE 687 Object-Oriented Design, where the team of students have been asked to develop a test harness in the C++ programming language. The project was split into four phases, as described below.

Phases

Architecture & Design

Test Harness Development

Multiple Test Capability

Remote Operation Capability

All of this enables any number of clients to connect to the server for simultaneous testing of any number of functions located on specified DLLs accessible to (i.e. built with) the program. The team developed both terminal- and graphical-based user interfaces to demonstrate these capabilities in a simple-to-use manner.