

Eric Gutierrez

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EDUCATION

Bachelor of Science in Computer Science

Expected: May 2024

University of Texas at Tyler

GPA 3.71

Relevant Courses: Programming Fundamentals, Object-Oriented, Data Structures and Algorithms, Information Management, Software Development, Computer Organization, Computer Architecture, Algorithm Analysis

Associate of General Studies

May 2020

Tyler Junior College

GPA 3.51

Member of Honor Society *Phi Theta Kappa*

SKILLS

- Technical Skills: Java, HTML, CSS, JavaScript, C++, Spring Boot, React.js, MongoDB, REST API's
- Soft Skills: Teamwork, Communication, Problem-Solving, Adaptability, Resilience, Critical Thinking

PROJECTS

Media Inventory System

Java, Spring Boot, React.js, MongoDB | Fall 2023

- Designed a Media Inventory Web Application for streamlined management of book inventories. Implemented paging mechanism displaying 20 books per view, enhancing load times and user experience.
- Integrated a feature to interact with the Google Books API, dramatically reducing the number of API calls from a potential 1000 to practically zero unless activated.
- Drove a 63% uplift in inventory management efficiency by engineering an optimized dynamic table, significantly cutting down on time for entries, updates, and data retrieval.
<https://github.com/TheEMG/Media-Inventory-System>

Libro Vault

Java, Spring Boot, React.js, MongoDB | Fall 2023

- Spearheaded the development of a Personal Library Web Application, leveraging Java, Spring Boot, MongoDB, and React.js. Designed for scalability, the application efficiently manages a catalog scalable to hundreds of books, ensuring robust performance and user-friendly interactions.
- Led a team of 5 through 30 Agile sprints over 15 weeks, completing the Personal Library Web Application one week ahead of the 15-week deadline, which showcased our ability to enhance team efficiency and expedite product delivery. <https://github.com/TheEMG/LibroVaultFinal>

Personal Web Portfolio

Next.js Tailwind CSS | Spring 2023

- Engineered a responsive portfolio with Next.js and Tailwind CSS, securing Lighthouse scores of 94/100 for both performance and accessibility, indicative of swift load times and broad device compatibility.
- Achieved a Lighthouse best practices score of 100/100, reflecting adherence to modern web standards.
- Crafted a user-centric navigation framework, accommodating diverse projects and ensuring intuitive access. The portfolio's superior SEO optimization is evident with a Lighthouse score of 100/100, enhancing search engine visibility. <https://ericgutierrezdu.com/>

Sorting Algorithm Efficiency

Java | Spring 2023

- Conducted an in-depth study of sorting algorithms' efficiency, developing a Java-based program that systematically evaluated performance against expanding datasets.
- Programmed and compared multiple sorting algorithms in Java—including insertion, selection, merge, and an optimized bubble sort—to benchmark their efficiency and scalability with growing data sequences.
- Demonstrated expertise in algorithm design and optimization, applying systematic analysis to improve sorting efficiency. <https://github.com/TheEMG/SortingAlgorithmEfficiency>

CERTIFICATIONS

Introduction to Cloud Computing – IBM (Coursera)

Fall 2023

- Studied cloud fundamentals, service models (IaaS, PaaS, SaaS), and deployment architectures (Public, Private, Hybrid). Reviewed key features of major cloud platforms (AWS, Azure, Google Cloud, IBM Cloud).

Getting Started with Git and GitHub – IBM (Coursera)

Fall 2023

- Earned a Git and GitHub certification, developing collaborative version control skills through practical application of Git operations and GitHub's platform features.

WORK EXPERIENCE

John Soules Food (Beef Trim)

Fall 2021

- Collaborated effectively within a team environment, contributing to a 23% increase in meat processing productivity through enhanced efficiency and teamwork.
- Quickly adapted to and mastered various roles on the meat processing line, demonstrating versatility and a swift learning curve in a high demand setting.