

William Eric Castillo

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I'm a recent Computer Science graduate with a strong foundation in programming languages such as C++ Java, and Python. I've also had hands-on experience with MongoDB, MySQL, and Oracle databases. I'm strongly committed to joining a collaborative team where I can apply my skills to create impactful software solutions.

EDUCATION

Bachelor of Arts in Computer Science
Texas State University
Major GPA: 3.67 / 4.00

Aug 2023
San Marcos, TX

Associates of Science in General Studies
Associates of Arts in General Studies
Austin Community College

Dec 2021
May 2021
Austin, TX

HONORS & DISTINCTIONS

Dean's List Spring 2023: Awarded to students with a GPA of 3.5 and above in a given semester.

RELEVANT COURSEWORK

Object Oriented Programming: Grade: A

My major project involved creating a multithreaded simulation of Conway's Game of Life. I learned about Java programming, multithreading, file handling, and object-oriented programming (OOP). I used Java for the implementation and used ArrayLists for dynamic thread management.

<https://github.com/WilliamEricCastillo/Multi-Threaded-GOL>

Computer System Security: Grade: A

Projects for this course included recreating the Caesar Cipher, Hill Cipher, and the Diffie-Hellman key exchange using Python. Another project involved using a virtual machine running Linux Ubuntu to set internet access restrictions on user accounts within the system using IPtables.

<https://github.com/WilliamEricCastillo/ComputerSystemSecurity>

Human Factors: Grade: A

Major project was working in teams to create a human interactive application. I was the project manager for the team and we created mental health website. We surveyed individuals after reviewing our website to adjust changes accordingly. Features of the application were a weekly mood tracker and curated poems/poetry that were suggested using a collaborative filter. Majority of the front end was developed by me using HTML5, CSS and Javascript.

<https://github.com/WilliamEricCastillo/craniumconscious>

Internet Software Development: Grade: A

Major projects for this class included a Library Book Tracking Application (MERN stack), where I utilizing MongoDB for data storage, and Express for the backend server, React for front end and Node. I gained experience in routing and HTTP methods such as GET, POST, and PUT for book management to support actions like listing available and checked-out books, checking in and out.

Computer Ethics: Grade A

Learned about the ethical and philosophical difficulties that occur in a world where technology is becoming increasingly prevalent. I learned about the complexities of copyright and patent law in the world of software, as well as an in-depth examination of the IEEE codes of ethics. I also completed a term paper in which I used ethical frameworks to assess the potential future difficulties faced by virtual reality workplaces. In addition, I worked on a collaborative study about the ethical, economic, and environmental challenges raised by SpaceX's Starship.

Software Engineering: Grade: A

Major project was to create a Software Requirements Specification(SRS) for a clinic information system that connects to an E-Tapper medical device. The SRS included use cases, functional and non-functional requirements as well as sequence and state diagrams. I learned about software development methodologies such as Waterfall model, Agile methodologies, Incremental and Iterative development, and component based engineering.

Data Structures: Grade: B

Coded multiple programs in C++ to demonstrate understanding. This course focused on using Git for local control versions and Github for remote repositories. Learned about classes and objects, stacks, linked lists, hash tables and binary search trees.

<https://github.com/WilliamEricCastillo/DataStructuresHomework.git>

Database Systems: Grade: B

Major project involved creating a database schema for a mental health website that tracks weekly mood, journal entries, to-do lists, therapist inquiries, and user credentials. I based the data inputs off of the website I created for my Human Factors course. I learned about **database design**, including **normalization**, **primary keys**, **foreign keys**, and **SQL** as well as how to use **Oracle** and **MySQL**.

WORK HISTORY

Platform Experience Analyst

10/2017 - 08/2021

Accenture/BcForward, Austin, Texas

- In this role, I dealt with sorting out intellectual property issues. This included going through infringement reports and giving input on the latest trends, potential problems that could escalate, and ways to improve our tools and workflow. I also had the task of managing high priority tasks especially when it came to urgent matters with high revenue clients.

Supervisor

04/2012 - 10/2017

Starbucks, Austin, Texas

- As a Supervisor at Starbucks, I had the role of overseeing store operations in the absence of the store manager, ensuring the smooth functioning of daily activities. This included maintaining compliance with operational protocols dealing with cash handling, safety procedures, and security. Additionally, I actively participated in the onboarding and training of new team members, averaging around 15 partners per year. I provided them with guidance and support to help them become valuable members of the team and grow in their roles.