

# Emmanuel Castillo

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## SKILLS

Languages: Java, C++, C#, Python, SQL, JavaScript, HTML, CSS

Software/IDE: Visual Studio Code, Heidi SQL, GitHub

Frameworks: ReactJS, NodeJS, ASP.NET

## EDUCATION

University of Houston – Clear Lake, Houston, Texas

**Bachelor of Science and Engineering in Computer Science**

Computer Science; GPA: 3.94

Alvin Community College, Alvin, Texas

**Associate of Science in Computer Information Systems**

## ACADEMIC PROJECTS

University of Houston-Clear Lake

**“Texan Tales” Spring 2024**

- Designing a web application to display a map of historical Texas landmarks and attractions. Users will be able to search for locations and traverse through the Texas map while their location is tracked in real time.
- **Technologies: Node JS, React Native, MySQL**

**“Linux FIFO Communication Project” Spring 2024**

- Designed server-client data communication using FIFO queues between the server and client inside a virtual Linux environment. System calls were also coded to send messages, integers, and request retrieval of stored parameters. Afterwards, the project was accommodated for multiple client connection; messaging between clients was also implemented using client and messaging waiting queues.
- **Technologies: C, WSL**

**“Speech to Text Recognition” Fall 2023**

- Using the Speech Recognition library, a Python script was designed to detect user speech and convert it to text. Furthermore, a Fast Fourier Transform was performed at a given sampling frequency to output signal amplitude and frequency.
- **Technologies: Micro Python, ESP32**

**“Scanner and Recursive Descent Parser” Fall 2023**

- Implemented a scanner and a recursive descent parser for a small programming language with its given grammar for lexical and syntax analysis. This program takes in acceptable/unacceptable code, collects lexemes, combines them into tokens, and goes through 18 BNF rules with each token to determine whether the program can compile.
- **Technologies: Java**

**“School Database Java Program” Spring 2023**

- Designed a Java program that connects to a MySQL school database which retrieves and inserts database information such as student information, departments, faculty, schools, etc. Users create custom queries which are then saved onto a text file.
- **Technologies: Apache NetBeans, MySQL**

## WORK EXPERIENCE

**Kroger**

**July 2022 – Present**

*Grocery Clerk*

- Providing customer assistance with product details and prices.
- Ensuring accurate product balance through handheld scanning top-shelf items.
- Replenishing grocery items on both shelves, end caps, and displays.

**Dollar General****September 2020– May 2022***Sales Associate*

- Cashiered customers while providing customer service.
- Quickly worked all types of products: drug, dry and frozen grocery, general merchandise, etc.