

KENIA BENITEZ

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EDUCATION

University of Houston

B.S in Computer Engineering Technology and B.S. in Computer Science

Minor in Marketing

Honors: Academic Excellence Scholarship, 2019-2023

Relevant Coursework: Embedded Systems, Computer Architecture, Semiconductor Devices and Circuits, Microprocessor Architecture, Data Structures and Algorithms, Operating Systems, Computer Aided Drafting, Sensor Applications, Communication Circuits, Circuit Theory, Digital Systems, and Computer Networks, Database systems, Programming Languages, Data visualization, Game development, Real-time systems, Software Design, Object Oriented Programming, Digital Image processing

Houston, Texas
Expected May 2024

Houston Community College

Associate in General Science, GPA: 3.6

Houston, Texas
May 2019

PROJECTS

VIDEO GAME AI & CONTROLLER LEAD

December 2023

- Led AI development and created a custom controller for the collaborative production of the video game "Bishop Isles" within a four-person team.
- Utilized C# to implement AI features, resulting in a three-level game reminiscent of classic Mario titles.
- Demonstrated strong teamwork and technical skills in delivering a polished gaming experience.

FULL STACK DEVELOPER FOR WEB APPLICATION

December 2023

- Played a key role in a collaborative team of four.
- Contributed expertise in JavaScript, HTML, and CSS for front-end development.
- Utilized Node.js and SQL for back-end functionality.
- Specifically focused on creating a dynamic gift shop module within the web application
- Designed the module to generate comprehensive reports on sales and revenue.

VEHICLE BLACK BOX

May 2023

- Capstone project: 3rd place overall
- Developed a team project aimed at enhancing vehicle safety and reducing the response time of first responders by creating a system that connects to multiple sensors to inform users of the state of the vehicle.
- Successfully integrated various cutting-edge components such as vibration sensor, temperature sensor, gyroscope sensor, GSM module, LCD, and Arduino Mega 2560 to develop a high-performance system.
- Utilized expertise in C programming language and Arduino IDE to effectively implement the project.

CLIENT/SERVER SYSTEM

March 2022

- Developed an advanced system comprising of client and server, utilizing sockets to decrypt messages while implementing multi-threading and multi-processing for optimal performance.

PAN-TILT CAMERA

May 2022

- Developed a pan-tilt camera system utilizing 1Sheeld and Arduino UNO
- Implemented Bluetooth control for the camera via a mobile device.
- Incorporated both x and y-axis functionality into the program to ensure seamless coordination between the mobile phone and the camera.

SECURITY SYSTEM

April 2022

- The objective of this project is to create a centralized security system to establish a fundamental building block for a comprehensive security grid.
- Designed with an exit delay, final chance delay, and audio control through the utilization of three 555 timers.

SKILLS

- Bilingual:** Bilingual in Spanish and English
- Technical Proficiency:** Strong knowledge of digital / analog devices, micro processing, and programming.
- Applications:** Multism, Computer Aided Drafting, Tableau, Unity
- Programming:** C++, C, C#, R, Python, Verilog, Ruby, Scala, JavaScript, CSS, Elixir, Clojure, Haskell, SQL
- Microcontrollers:** Prior experience using Arduino UNO/Mega
- OS:** Experience with Linux OS, MacOS, Windows OS
- IDE/Servers:** Arduino IDE, Visual Studio, XCode, RStudio, Quartus, SVN, Git, Replit, Ubuntu, MATLAB

WORK EXPERIENCE

1ST PLACE WINNER, VISION GALVESTON HACKATHON - "PATHWAY PROJECT"

October 2023

Led a four-person team to secure first place in the October 2023 Galveston hackathon.

- Conceptualized and developed the innovative "Pathway Project," aimed at aiding homeless individuals in Galveston by streamlining navigation and access to resources.
- Pioneered the design of a cost-effective "resource kiosk" featuring a map and various support services.
- The solar-powered kiosk included an ad display to generate revenue for maintenance during periods of inactivity.
- This successful project showcased a commitment to social impact through technology and strategic problem-solving.

RUGGLES BLACK; HOUSTON, TX

March 2022-Present

Server

- Demonstrated strong interpersonal skills by providing attentive and courteous customer service in a fast-paced environment.
- Honed time management abilities to efficiently handle multiple tables, ensuring prompt and accurate food and beverage orders.
- Collaborated effectively with a diverse team to ensure smooth restaurant operations and address customer needs.
- Developed problem-solving skills by addressing customer concerns and finding prompt resolutions.
- Showcased adaptability and composure in high-pressure situations, consistently maintaining professionalism during busy shifts.

ORGANIZATIONAL EXPERIENCE

PHI SIGMA RHO; HOUSTON, TX

November 2020-January 2023

Alumni Relations/Active Member

Communicate with graduates and provide information about forthcoming events. Deliver exceptional services in nurturing relationships with the organization.

- Succeeded in organizing an event within the assigned budget.
- Outperformed to accomplish the "Rho" award in spring 2021.