Kevin Saldana Avilez

Houston, Texas

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Education

University of Houston · Dec. 2023
Bachelor of Science in Computer Science, Minor in Mathematics · *GPA:* *3.3*

San Jacinto Community College · May. 2021
Associate of Science in Computer Science – Honors College · *GPA:* *3.8*

Projects

HackTX Financial Education Website | *React, Express.js, MongoDB, Figma* · Oct. 2023
- Directed a team of 3 developers to create a financial education website within 24 hours utilizing the MERN stack to compete in Capital One's Financial Challenge.
- Created a functional prototype including 5 interactive webpages with a functional backend design.

CNN Brain Tumor Detection Model | *Python* · Oct. 2023
- Guided a team to develop a Convolutional Neural Network (CNN) for precise detection and classification of brain tumors from diverse MRI brain scans.
- Implemented a GUI to enhance user experience, providing a seamless visualization of the model's evolving accuracy over time.

Fuel Quote Application | *Node.js, ElephantSQL, HTML/CSS* · May. 2023
- Administered a team of 4 developers to create a predictive fuel quote estimator utilizing Agile software engineering strategies.
- Implemented security methods through out the website via password encryption methods and including risk management, identity authentication, and incident response.
- Enhanced the applications code quality and reduced the frequency of bugs through the adoption of Test Driven Development.

Diabetes Evaluation Model | *Jupyter, Python, R-Studio* · May. 2023
- Explored a dataset to identify key determinants for predicting diabetes, optimizing data utilization with preprocessing techniques.
- Employed 3 supervised classification models to precisely identify variables that impact diabetes.

Leadership/Extracurricular

CS Girls | University of Houston · Aug. 2023 – Dec. 2023
Professional Development Committee · *Houston, TX*
- Orchestrated and facilitated technical and behavioral workshops for 75+ computer science students, fostering skill development and networking opportunities
- Initiated focused tutoring sessions in Computer Science to enhance coding proficiency and pattern recognition.
- Advocated for inclusivity, fostering active participation from all genders. Collaborated with industry professionals and faculty to infuse workshops with impactful real-world insights.

Texas Space Grant Consortium Challenge | TSGC · May. 2021
Team Lead · *Pasadena, TX*
- Worked alongside a team of 4 to engineer a three-dimensional Fresnel lens tailored for space functionality.
- Facilitated weekly agile meetings to foster progress and exchange ideas, ensuring timelines are met.
- Delivered a compelling and conclusive presentation of our NASA design and research findings, showcasing our team's expertise before a panel of judges and peers from 17 rival institutions.

Technical Skills

Programming Languages: Python, C, C++, HTML, CSS, JavaScript, SQL, MongoDB, R, MATLAB, Powershell
Developer Tools: VSCode, PyCharm, Xcode, Git, GitHub, R-Studio, Android Studio, Microsoft Office Suite, Figma
Frameworks: React, Tailwind, Node.js, Express.js, NumPy, Scikit-Learn
Languages: English (Native), Spanish (Native)