David A. Vasquez
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Expected Graduation: May 2024

Education

The University of Texas at El Paso

Bachelor of Science in Computer Science

	Relevant Coursework Overall GPA: 3.26	
	Machine Learning Data Mining Data Structures Discrete Mathematics Digital System Design	
	Advanced Object-Oriented Programming Software Engineering	
Project Experience		
ARC	NAA Project JavaScript, React, Python October 2023 – Present	
	Collaborated within a project team, applying JavaScript, React, and Python to implement key functionalities in ARCANA, enhancing event analysis.	
	mplemented JavaScript algorithms for data parsing in ARCANA, contributing to event node creation and enhancing project capabilities.	
	Contributed to the ARCANA project's goals of improving analytical workflows and observational reporting for cyber threat analysis.	
	rsity Writing Center Queue Web App JavaScript June 2023-Present	
	Developed a web application for The University of Texas at El Paso Writing Center to automate consultant assignment into a queue, significantly	
	nhancing the efficiency of their existing system.	
	Collaborated closely with the assistant director on a weekly basis to incorporate their specific requirements and feedback into the web	
	pplication's design and functionality.	
	Designed an intuitive and user-friendly interface tailored to meet the needs of the staff, streamlining the queue management process.	
	Responsible for the front-end development of the website, ensuring it aligned with the center's unique requirements and branding.	
	January 2023-July 2023 January 2023-July 2023	
	Developed a comprehensive fitness tracking web application that allows users to record and monitor their fitness progress and goals by logging	
	rarious workouts and associated weights.	
	Jtilized JavaScript, HTML, and CSS to build both the front-end and back-end components of the application ensuring a seamless user experience.	
	Collaborated effectively within a team, employing agile methodologies to enhance project workflow, encourage iterative development, and	
	naintain a responsive development process.	
	Demonstrated proficiency in full-stack development, encompassing both user interface design and back-end functionality.	
	Customer Purchasing Interface Java October 2022-January 2023	
	Developed a secure customer-centric program enabling users to register with secure login credentials and make purchases of items, event tickets,	
	ubscriptions, and more.	
	Jtilized UML case, state, and class diagrams to meticulously plan and map out the code, ensuring a well-organized and efficient implementation.	
	everaged object-oriented programming principles to create a versatile system that allowed users to utilize their currency for the purchase of event	
	ickets and other items.	
	mplemented industry-standard design patterns such as singletons and design factories to enhance the codebase's structure and behavior, resulting in	
	more maintainable and scalable application.	
	Demonstrated expertise in software design, creatively combining technical proficiency to build a robust and user-friendly application.	
	Relation Game Solver python May 2022	
	Created a program, when given two words will find the connection, if there is one, changing one single letter at a time.	
	This program reinforced my knowledge of data structures by implementing Depth first search and Dijkstra's Algorithm.	
	tu Solver python May 2022	
	Created a program, that can solve any sudoku by a back tracking algorithm.	
	By making the back tracking non-recursive, the code improved its time and space complexity, lowering the runtime by 30%.	
Organ	zations & Community Service	
Codi	g Interview Club Member August 202 – November 2022	
	Solved dozens of interview style questions to strengthen problem solving skills and coding skills as well as broadening my abilities to apply	
	different techniques to various situations.	
	Attended weekly meetings to prepare for technical interviews	
	wood Highschool STEM Tutor Volunteer January 2020- Present	
	Hosted and taught high school level training sessions in coding language Java	
	Aided students in technical homework pursing STEM field degrees	
Work	Aided students in technical nonlework pulsing 5 i Elvi field degrees	
Code	Ninjas Coding Tutor January 2023 – Present	
	Guide children aged 6 to 14 in building games using Unity with C#, fostering a solid foundation in computer programming fundamentals.	
	Cultivated problem-solving, critical thinking, and STEM skills in an engaging and secure learning environment.	
	Evaluated and graded assignments to track students' progress and provide constructive feedback.	
Univ	rsity Writing Center Writing Consultant August 2022- Present	
	Assist students at The University of Texas at El Paso with any writing assistance they may need with APA, MLA, and Chicago style formatting.	
	Lead, present, and developed workshops designed to help students with academic and professional development skills	
Skills		

Programming Languages: Java, JavaScript, CSS, Python, C, PHP, Lua, C# Development Tools: UML (Class, Use, State), Electron, Git, Firebase, SQL