

Jonathon Delemos

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EDUCATION

California State University, Sacramento - Sacramento, CA, United States <i>Bachelor of Science in Computer Science</i> Relevant Courses: Data Structures and Algorithms, Object-Oriented Computer Graphics Programming, Software Engineering, Relational Database Management Systems, Computability Theory, Operating Systems	August 2023 - May 2025
University of Pennsylvania – Philadelphia, PA, United States <i>Masters of Science in Engineering in Artificial Intelligence</i> Relevant Courses: Artificial Intelligence, Natural Language Processing Degree in Progress: <i>Expected Graduation Date, May 2027</i>	August 2025- Present

SKILLS

- **Programming Languages :** Java, Python, Shell Scripting, HTML, CSS, JavaScript, Excel, VS Basic, C
- **Tools/Software:** Git, Linux, Vim, Blender, VS, Atom, React, Jira, MongoDB, GREP, CLI, Eclipse
- **Database Systems:** Oracle SQL, MySQL, PSQL, MongoDB

PROFESSIONAL EXPERIENCE

Director – Mathnasium, Folsom, California, United States	December 2023 – Present
• Create and update comprehensive lesson plans that align with the state of California mathematical educational standards, ensuring they cater to students' varying skill levels from basic arithmetic to advanced calculus.	
• Provide personalized tutoring in a one on one setting, and group instruction in mathematics, addressing student needs and covering topics from foundational math to advanced calculus, with a focus on improving knowledge and performance. Assess and evaluate student abilities: Conduct thorough assessments to gauge students' math proficiency, analyze results to identify strengths and weaknesses, and adjust instructional strategies to meet their needs.	
Programming Consultant – Timothy J. Durbin Inc., United States	August 2024- October 2024
• Taught time complexity for algorithms in groundwater modeling and analysis to the team, ensuring they are efficient, accurate, and meet the specific needs of the engineering project. Tech Stack: Fortran, Excel, LaTeX	
• Created excel models for ground water salinity wells in the greater Sacramento area, utilized basic programming tools, ensuring that the software performs reliably under various conditions and handles large datasets effectively	
• Worked closely with my supervisor to understand their requirements, integrate solutions into data models, and provide technical support for data set creation.	
Data Structures and Algorithms/Linear Algebra Tutor – CSUS - PARC, United States	Jan 2024- May 2024
• Offer personalized and group tutoring sessions for students in data structures, assisted with administrative work, Algorithms, linear algebra problem sets, helping them understand complex concepts and improve problem-solving skills.	
• Create and deliver instructional resources, including lecture notes, practice problems, study guides, midterm reviews, tailored to the needs of students in data structures, algorithms, and linear algebra courses.	
• Evaluate students' understanding through assessments and feedback, address students needs, identify problems, and provide targeted explanations and practice to enhance their grasp of the material.	

Project Work

Machine Learning - Computer Vision - Target Moving Objects: Roboflow/yolov8

- The purpose of this project was to create a machine model that could differentiate between objects on screen. By doing so, we aim to improve our ability to monitor, predict, and manage the different aspects of business events. To train the model, I created my own custom dataset - this involved taking screenshots of the targets. After the dataset was collected, I created the annotations for the model to learn from. I used a set of one hundred data points.
- Roboflow: The next step was to train the model using Roboflow. The goal was to generate a model that could identify moving targets on screen. The model was then passed through model training to obtain best weights. Once the best weights were obtained, we used yolov8 in a python script to utilize the model. Using this script, we could screenshot the activity on screen, pass it to the model, and determine the coordinates of the target.