

# Ian Sabolik

## Contact Information:

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## Education:

- Bachelor of Science in Computer Science, Texas A&M University (Expected graduation: May 2024)
  - Relevant Coursework: Discrete mathematics, linear algebra, data structures and algorithms, computer organization, currently in software engineering, computer graphics, and machine learning
- Achievements: National Merit Finalist, President's Endowed Scholarship recipient

## Projects:

- Created an organization website for the TAMU chapter of MOVE Texas using the Ruby on Rails framework.
  - Worked in a team of 5 to build the site following the Agile development methodology.
  - Integrated the Google Calendar API so that members can see events on our site.
  - Coordinate with organization leadership to ensure customer satisfaction.
- Developed a database management system using SQL for a point-of-sale system.
  - Worked in a team of 6 to build the system from scratch using React.js and followed the Agile development methodology.
  - Connected the website and database using SQL and programmed Python scripts to populate the database.
- Designed and implemented several stages of the computer graphics pipeline.
  - Created a rasterizer to accurately convert 3D models (stored as .obj files) into 2D images for display on screen.
  - Developed multiple shaders, including a Blinn Phong shader, to create stylistic lighting and shading effects.
- Constructed various machine learning models including such as linear regression, logistic regression, ridge regression, and LASSO regression.
  - Built in Python both from scratch and utilizing the scikit-learn library.

## Skills:

- Proficient in C++ and Python
- Experience with web development using HTML, CSS, JavaScript, Node.js, and React
- Strong problem-solving and critical thinking skills
- Excellent written and verbal communication skills
- Strong teamwork and collaboration skills