

# Geralt Heart

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github.com/GHeart01 | in/geraltheart001

## Education

- University of Colorado Boulder January 2025 – December 2026 (currently enrolled)  
Master of Science in Computer Science
- Blinn College June 2024– Fall 2024  
Associates of Science in Computer Science
- University of Texas Rio Grande Valley (UTRGV) July 2017 – May 2020  
Bachelor of Science in Applied Mathematics

## Projects

### MIMO Radar Imaging Study

- [github.com/GHeart01/MIMOFourierSeriesProject](https://github.com/GHeart01/MIMOFourierSeriesProject)

Demonstrated the use of Fourier Series in Multi-Input-Multi-Output (MIMO) to build a multiarray setup in determining measurements of a signal between a message sender. And receiver. Measured by comparison against SISO (Single-Input-Single-Output) performance. Used Matlab, LaTeX

### Portfolio Website: [geraltheart.com](https://geraltheart.com)

- [github.com/GHeart01/Website](https://github.com/GHeart01/Website)

A portfolio website created using HTML/CSS/JS – Utilizes emailJS client and hosted with Cloudflare

### Supervised Machine Learning Project - Spaceship Titanic

- [github.com/GHeart01/SpaceShip-Titanic-Supervised-ML-Project](https://github.com/GHeart01/SpaceShip-Titanic-Supervised-ML-Project)

Accomplished a goal of determining Boolean values for position of passenger as measured by correct values in original dataset in comparison to result using by Random Forest, Gradient Boosting, and Logistic Regression. Libraries and Frameworks: NumPy, pandas, seaborn, matplotlib, Tensorflow

## Work Experience

Mathematics Tutor South Texas College | Sept 2018 – June 2020

- Provided tutoring services for mathematics and statistics courses including College Algebra, Calculus I, II, III, Elementary Statistics, Differential Equations, and other mathematics classes.

Freelance Mathematics Tutor | June 2020 – May 2024

- Customized mathematics tutoring sessions to meet individual student needs, focusing on areas such as calculus, algebra, and statistics.

## Skills

- Programming Languages: Python, C, C++
  - Frameworks/Libraries/Data Cleaning: NumPy, Pandas, Matplotlib
  - Machine Learning: sklearn, Tensorflow, ydf, SciPy
- Web Development: HTML, CSS, JavaScript, EmailJS, Cloudflare, AWS amplify
- Operating systems: MacOS, Windows, Linux (RaspbianOS, Ubuntu)
- Software Tools: GitHub, Git, VS Code, Xcode, Jupyter Notebook (python)