

# Isaiah Martinez

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[linkedin.com/in/isaiah-martinez-tech-dev-comp-math/](https://www.linkedin.com/in/isaiah-martinez-tech-dev-comp-math/)

[github.com/EZRA-DVLPR](https://github.com/EZRA-DVLPR)

## Experience

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### Undergraduate Research Assistant

*East Carolina University*

Greenville, NC

May 2022 – Aug. 2022

- In MATLAB wrote several scripts that automated EEG preprocessing
- In R wrote a script performing Statistical Analysis from the preprocessed data
- Poster Presentation on the project at the BMES National Meeting 2022
- Provided coding assistance to other members of the REU

### Plasterer

*Pyramid Plastering*

Sun Valley, CA

Jan. 2019 – Aug. 2020

- Helped with the transportation of materials to job sites
- Cleaned vehicles and maintained tidy workspaces
- Manual Labor including carrying objects over 50 lbs.

### Martial Arts Instructor

*Koryo Martial Arts*

Porter Ranch, CA

Jan. 2016 – Dec. 2018

- Taught Self-Defense techniques to people ranging from ages 4-60+
- Responded to inquiries and addressed concerns of parents
- Tested students' knowledge and understanding
- Awarded belts to students demonstrating proficiency of the material

## Education

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### California State University - Northridge

*Master of Science in Computer Science*

Northridge, CA

Expected May 2025

### California State University - Northridge

*Bachelor of Science in Computer Science and Mathematics*

Northridge, CA

Aug. 2018 – May 2023

## Technical Skills

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**Languages:** Python, Java, C/C++/C#, JavaScript, HTML, MATLAB, LaTeX, CSS, SQL, R, PHP

**Frameworks:** MongoDB, Express, React, Node.JS

**Developer Tools:** Git, ChatGPT, VS Code, Visual Studio, ffmpeg, Jira, Jupyter Notebook, StackOverflow, MathExchange, Microsoft Suite

**Libraries:** OpenPyxl, Requests, ArgParse, BeautifulSoup, Pandas, NumPy, Matplotlib, Scikit-learn

# Projects

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## **Personal Website** | *HTML, CSS, JavaScript*

Jan. 2023 – Present

- Designed website from scratch
- Hosted via GitHub Pages

## **GameList** | *Python, Excel*

Feb. 2023 – Present

- Web Scraping Python program that performs google search with given txt file input
- Performs secondary website connection to howlongtobeat.com
- Successful connection request begins data scraping process from webpage (howlongtobeat)
- Inserts data into XLS
- Modifies XLS based on user input – sorting, coloring

## **2D Game** | *Unreal Engine, Blueprints, GarageBand, JavaScript* Aug. 2022 – May 2023

- Designed and Created Enemies and AI
- Designed and Created a level
- Created and mixed all sound effects and music
- Created website for the project

## **Advanced Mathematical Scripts** | *Python*

Aug. 2022 – May 2023

- Approximations including Euler's Method and Newton's Method
- Primitive Root Finder which relies on the Euler Phi Function
- Cipolla Algorithm

## **The Crucible** | *Python, Frame.io API, ffmpeg, MongoDB, Excel* Feb. 2023 – May 2023

- Built in automation script using Python that automates 4 manual positions in seconds
- Reads proprietary data from Baselight and Flame machines to calculate filesystem locations of frames
- All requests saved to database and can be used for data analysis and work efficiency
- Exports are basic CSV files to XLS files with timecode and thumbnail preview that can be uploaded to Frame.io

## **PuzzledUp** | *JavaScript, MongoDB, Express*

Oct. 2022 – Dec 2022

- Handled API connectivity between server and database
- Set up Database and Models that would be used
- Designed connectivity between frontend and backend servers