**Adrian Manchado**

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Portfolio: <https://manchado53.github.io/>

**SUMMARY**

## B.S. Computer Science and Mathematics Minor student at MSOE with exceptional record of academic achievement and team leadership experience. Numerous hands-on, team-based project experience. Devoting 20 hours per week as NCAA athlete, along with 5 hours per week with MSOE AI Club research. Have developed customer service skills in summer sales position. Billingual in Spanish and skills in: Java, Python, Object-Oriented Programming, Artificial Intelligence, Data Mining, Github, and HTML.

**EDUCATION**

**B.S. Computer Science** | Math Minor | Milwaukee School of Engineering | GPA: 4.0 | Exp. May 2026

**TECHNICAL SKILLS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| * Java & JavaFX * Data Structures * Artificial Intelligence | * Python * Functional Programming * Data Mining | * HTML * MS Office, Excel * OOP | * SQL * Github * GUI |  |  |

**INDEPENDENT PROJECT EXPERIENCE**

**Website Practices Generator | Men’s soccer Team (Team of 7):** Created a website for the MSOE Men’s Soccer Team so that coaches or administrators can generate random practice teams. Improving competitiveness in practice schedules while tracking performance statistics.

* Created an user-friendly front end React App, for customers that are not familiarized with technology.
* Developed an API in Python to pass information between the front end and back end.
* Developed a database with PostgreSQL that can store the data to generate the teams
* Interacted with website hosting through AWS Amplify and Lambda to make it accessible to every member of the team

**PROJECT EXPERIENCE**

**Next-Step Clinic AI Workflow | MSOE *Hacksgiving* Competition (Team of 6) :** Use Machine Learning to optimize the flow of work of the user through the website of Next-Step Clinic.

* Utilized HTML to create a user-friendly interface for autism patients and families, in which an user-profile is created through a form
* Developed an embedding model in which it is find the best-fit information for every patient.
* Created a database with the resources and the information of the patients in SQL.
* Applied FastAPI to create an API that could allow us to test our application
* Used OpenAI to summarize the information in the data base and make the data accessible.
* Secured the information by encrypting the information transferred between the API and the front-end

**Result:** A concept API with a website that takes input from the user and provides the most convenient resource, improving customer satisfaction. Work was shared with the Next-Step Clinic to potnetiall.

**Image Transformer GUI Project** | **Independent Project**: created a JavaFX application with a GUI that is able to load, modify and save images in different formats

* Developed the software in Java to compute the mean or median of the argb pixel colors the input images creating a new image based on the operation. Designed code able to interact with PPM files
* Created an user interface with Button, ImageViewer, Hbox, and different JavaFX objects
* Triggered manipulations on the picture object using Event Handlers

**Result**: An user-friendly graphical interface that computes operations (mean and median) on images pixels and applies transformations to them

**NCAA STUDENT ATHLETE EXPERIENCE**

**MSOE NCAA Soccer Team** |  Sep 2022 - Present  |  20 hrs per wk

* Balance 3 term, 2-hour, daily practice, off season training & bi-weekly game travel with full-class schedule.
* Study, learn, and execute numerous game strategies, mechanics, and systems.
* Practice troubleshooting and problem-solving techniques in high stress, real-time competition environment and immediately modify strategy accordingly.

***Developing teamwork, communication skills, time management and prioritizing skills, competitive character, highly disciplined work ethic, and performance excellence.***

**LEADERSHIP | CO-CURRICULAR INVOLVEMENT | COMMUNITY SERVICE**

* **AI Club member**| MSOE | September 2023 - Present (5 hrs per wk)
* **Event Manager Volunteer** | Cardinal Stritch University | September 2022 - May 2023
* **Captain of Soccer Teams** | Selected as captain of multiple teams 5 times throughout soccer career.
* **Fundraiser for Non-profit organization** | Caritas Association | Madrid, Spain (2018-2022)

**JOBS**

* **Sales Agent** | Cardamomo Flamenco Madrid | Madrid, Spain | May – Aug 2023 (40 hours/week)
* **IT help desk Assistant** | Cardinal Stritch University | Feb – May 2023 (20 hours per week)
* **Business Office Assistant** | Cardinal Stritch University | Feb – May 2023 (20 hours per week)
* **Technical Producer** | Juanjo SA | Madrid, Spain | May – Aug 2022 (30 hours per week)
* **Independent Reseller**  | Madrid, Spain | Sept 2020 - May 2022

**INTERESTS**

Programming | Soccer | Personal Development | Physical Activity | Travelling | Connecting with people