

Joseph Ranieri

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For
whoever
reads this



Skills

Languages:

- Spanish and English

Coding Languages:

- JavaScript, Python, C/C++, Scala, HTML, CSS

Experience & Academic Projects

UB Recreation / Referee

2022 - PRESENT, BUFFALO NY

- Started as an assistant and then became a **head** referee
- Introduced VAR to prevent erroneous decisions
- Managed both recreational and competitive divisions for indoor and outdoor soccer

Image Classifier / Solo Project

- Goal was to create a model to identify whether a given image contained a dog, a food or a vehicle
- Implemented a CNN (AlexNet) in order to accomplish this with an accuracy of 85%
- Trained model with a dataset containing 15,000 images divided equally among the three categories of items

Social Media Site / Collaborative Project

- <https://webdev.cse.buffalo.edu/hci/teams/dawgz>
- Worked with my team to develop a social media site for movie viewers/book lovers discussions
- Used CSS to make site responsive and usable on mobile devices
- I mainly focused on the sign in and sign up features along with the messaging

Pintos Operating System / Collaborative Project

- Worked in group of three to design and implement the functionality of the Pintos OS
- Developed lazy loading where a page was only loaded into a frame when it was first needed (when page fault occurred)
- Implemented stack growth such that when there is a page fault for a page not within the page table a page is created, added to the stack if possible and mapped to a frame
- Included thread synchronization through the use of semaphores
- Created system calls by invoking an interrupt and pushing all arguments with the syscall number to the stack and then passing the stack pointer to the syscall handler

Education

SUNY University at Buffalo / Bachelor's in Computer Science

2020 -2024, BUFFALO NY

Relevant Courses:

- CSE250(Data Structures)
- CSE331(Algorithms & Complexity)
- CSE421(Operating Systems)
- CSE474(Machine Learning)

Projects

- <https://justjoe6.github.io>