Colin Schmierer



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EDUCATION

2019-University of California Merced - May 2022

-2022 Bachelor of Science - Computer Science and Engineering (CSE)

Courses: Networks, OOP, Distributed Systems, Image Processing, Data Structures, Algorithms & Design

EXPERIENCES

2022 Object Detection Research [Python (TensorFlow & PyTorch)] [YOLO, CenterNet, FRCNN, MobileNet]

- · Worked under Professor Xiaoyi Lu with a team
- · Investigated ways to increase accuracy of object detection when looking for tiny objects
- · Our research paper was accepted at the 2022 BenchCouncil: International Open Benchmark Council

Software Solution for Western Digital - Senior Capstone Project [Python, MySQL, HTML, CSS, PHP, Git] 2021

- Responsible for delegating tasks within the team and communicating with the company
- · Successfully negotiated the scope of the project and provided a dashboard that collected/displayed information about their laboratory computers

2018-San Joaquin Delta College Robotics Competition [Arduino]

-2019

- · Constructed and programmed a robot with a teammate to follow a set path while avoiding obstacles
- · Achieved 1st place in 2018 and 2nd place in 2019

PROJECTS

Course Availability [2021] [Python] [Selenium]

- · Worked with a team to create a program that would check the number of available spots in a given UC Merced class and inform users of open seats
- · Allows users to set up notifications and recieve updates for multiple classes using Discord
- Faster than Coursicle by approximately 1 to 3 minutes

Super Hexagon Bot [2022] [C++] [OpenCV]

- A program that can play the game "Super Hexagon"
- · Uses image processing to collect location of obstacles
- Computes best path to avoid obstacles

Palindrome Calculator [2020][C++]

- Calculated how many words in a given list were palindromes of each other
- Utilized a hash table to store all inputs and check the reverse of each word
- · Unit tests ensured the accuracy of the program

Networking Project [2021] [C/TinyOS]

- · Implemented logic allowing simulated nodes to send information to any node in the network
- Nodes utilize TCP to reliably send packets to each other
- · Implementation included neighbor discovery, network flooding, link-state routing with dijkstra, and TCP

Snake Game [2021] [C++] [OpenGL]

- · Recreated the classic snake game with a partner
- Used custom data structures for game objects
- Implemented textures using SOIL library

GDC Game Jam [2020][Python]

- · Worked with a team to create an original game during the Spring 2020 semester
- · Responsible for programming the game and incorporating music/art created by the other members
- · Successfully finished the game by end of the semester

WORK EXPERIENCE

2020 Amazon Fulfilment Center (SCK1) - Lift Operator

> Operated a lift machine to retrieve products from racks and deliver them to be packed and shipped. Worked from the beginning of July to the end of August 2020

SKILLS

Python(Advanced), C/C++(Advanced), MySQL(Proficient), HTML/CSS/JS(Proficient), Linux(Proficient), Git(Proficient)