

Colin Schmierer



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EXPERIENCE

Present **Software Developer at CACI International Inc**

2023

- Software Developer on MAST(Mission Avionics System Trainer) Team at CACI
- Decreased database download times by over 300%
- Currently working on Maintenance Trainer System (MTS) contract
- Designed and programmed software simulation of real aircraft hardware for in office testing
- *More to come*

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

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

- 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

PERSONAL PROJECTS

2023 **Super Hexagon Bot [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

2021 **Course Availability [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 receive updates for multiple classes using Discord
- Faster than Coursicle by approximately 1 to 3 minutes

2021 **Networks Course Project [C/TinyOS]**

- Implemented logic allowing simulated nodes to send information to any other node in the network
- Implemented TCP from scratch to allow nodes to reliably send packets to each other
- Ideas covered in project: neighbor discovery, network flooding, link-state routing w/ dijkstra, and TCP

EDUCATION

2022 **University of California Merced**

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

SKILLS

Advanced: C/C++ Python Git

Proficient: C# HTML/CSS/JS Linux SQL