

Bradley Nafziger

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Education

Miami University, Oxford, OH

Aug. 2019 - Dec. 2023

Bachelor of Science, Computer Science

Dean's List Fall 2023

Senior Design Capstone

Fall Semester 2023

Python Development

- Created in Python a 3D graphics and rendering engine for an AR library using PyOpenGL
- Used Machine Learning Algorithms to create 3D objects in the spacial environment from QR codes
- Applied Machine Learning Operations to track hand and wrist points to create interactive gestures
- Worked in a team of 5 using AGILE practices and created a Wiki for documentation for future teams

Work

Magikid Robotics Lab

Mar. 2024 - Present

Instructor

- Taught children STEAM skills with Vex, Scratch, Python, and 3D Modeling
- Coordinating and developing lesson plans to be used by instructors
- Collaborated with owner to ensure the success of the new business by attending events and creating marketing materials

Goose Technology Inc.

Feb. 2020 - Sept. 2023

Lead Software Engineer

- Designed Flight and Navigation motherboard and procured chips and PCBs for assembly into drone
- Programmed autonomous Flight Navigation System using machine learning algorithms to create flight paths
- Created obstacle avoidance software using computer vision library, OpenCV
- Tested and developed batteries and sensor systems to optimize charging and battery life

GymSensei

Oct. 2021 - Dec. 2022

Tech Consultant

- Designed data flow pipeline from hardware to client using the MERN stack
- Developed lidar signal processing and algorithm to parse data into set and reps
- Won second place in the Miami University Pitch Competition

Scott's Add-Ins

May 2022 - Oct. 2022

Marketing & Software Engineering Intern

- Designed and ran digital marketing campaigns via Email, Google Ads, FB Ads
- Built a marketing funnel and data capture process for analyzation in order to optimize marketing strategy
- Created an admin dashboard on WordPress using JS, PHP, & SQL to track business analytics
- Modeled and optimized data to ensure understanding of key data for better business intelligence

Skills

Spanish - C/C++ - Java - Python - AWS - Git - Docker - AGILE - MERN - HTML/CSS/JS - Verilog - MVC

Extracurriculars

Miami University Crew

Aug. 2021 - Nov. 2023

Coach

- Motivated and inspired team members to achieve their best performance with personal performance plans
- Acted as a liaison between members and the executive board, ensuring clear communication and addressing any conflicts
- Used my 7 years of rowing experience to create workout routines and ancillary practice work, emphasizing injury prevention and proper stretching techniques