

Nathanael Oliver

Columbia, SC

(803) 807 - 2017

nathanael.oliver437@gmail.com

EDUCATION

University of South Carolina, Columbia SC

May 2024

Bachelor of Science, Computer Science

Minor in Mathematics

CLASSROOM EXPERIENCE

AI Vision in Robotics

Spring 2024

CSCE 790, Neuromorphic and Edge Computing

University of South Carolina, Columbia, SC

- Deployed an AI model to a Jetson Nano to use cameras to Navigate a Robot in Real Time
- Utilized TensorFlow to Design a Model to Detect Multiple Objects
- Optimized Model to Minimize Size to Deploy on Edge Device and Run in Real Time

Multi Sense Rescue Machine Learning System

Fall 2023

CSCE 585 Machine Learning Systems

University of South Carolina, Columbia, SC

- Trained a Machine Learning Model to Identify and Navigate to Multiple Sounds in an Environment
- Reproduced Work shown in Research Paper
- Deployed Model to Physical Device to Test Adaptability

Palate Food App

Fall 2023—Spring 2024

CSCE 490/492, Capstone Computing

University of South Carolina, Columbia, SC

- Designed and Programmed an App to Suggest Recipes based on Ingredients
 - Built a Database to store User Information and Recipes
 - Implemented Search Algorithms to Find Relevant Recipes for Users
 - Tested Application using Jest to Ensure App Reliability
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PROFESSIONAL EXPERIENCE

IT Helpdesk Technician

Feb. 2021—May 2024

CEC IT Helpdesk

University of South Carolina, Columbia, SC

- Write Scripts for Managing Forms and Automating Workflows
 - Fix, Replace, and Rebuild and Install Software for Desktops and Laptops
 - Train and Manage Student Workers
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TECHNICAL SKILLS

Programming Languages: Python, C++, Java, C#, Swift, Dart with Flutter, JavaScript, React.js, Jekyll

Software Applications: VS Code, xCode, Android Studios, Eclipse, Vim, Autodesk Inventor, Microsoft Suite

Operating Systems: Windows (7, 8, 10, 11), Mac OS, Ubuntu, Kali

Certifications: Dell Certified Technician

Site: <https://nathanaeloliver.github.io/portfolio/>

GitHub: <https://github.com/NathanaelOliver>

LEADERSHIP EXPERIENCE AND EXTRACURRICULARS

Robotics Non-Profit Organization

Fall 2021—Spring 2024

- Founded Organization to Compete in Collegiate Robotics
- Applied for and Received Non-Profit Status and Managed all Finances
- Programmed AI and Motion Control Algorithms using C++ and Python
- Designed and 3D Printed Parts using Autodesk Inventor
- Won Awards at World Championship (2022, 2023, and 2024)

Cybersecurity Club

Aug. 2020—May 2023

- Elected President for 2021-2022 year
- Elected Chief Technology Officer for 2022-2023 year
- Competed in Southeast Collegiate Cyber Defense Competition and other Cybersecurity Competitions

Association for Computing and Machinery (ACM)

Aug. 2020—May 2024

- Attended Conferences for Open Source Technology
- Placed Third in the Upper Division Programming Competition
- Placed First in the Lower Division Programming Competition

Fall 2021

Spring 2021