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

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

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

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 — Fall 2021
- Placed First in the Lower Division Programming Competition — Spring 2021