Nicholas W. Sutton

Raleigh, NC | github.com/nick-sutton | linkedin.com/in/nicholas-sutton13 | nicksutton46@gmail.com

Education

North Carolina State University — Raleigh, NC
Bachelor of Science in Computer Science — *May 2027*

Asheville-Buncombe Technical Community College — Asheville, NC
Associate of Science in Computer Science | GPA: 4.0 — *August 2022 – June 2024*

Projects

Wolf Scheduler | *Java, JUnit, Jenkins* — August. 2024 – September 2024

- Built a GUI-based event registration system using Java, following the MVC design pattern
- Created a comprehensive JUnit test suite to validate system functionality and ensure application reliability
- Integrated Jenkins CI/CD and automated testing to drive efficient and consistent development

Dungeon Crawl | *Godot, GDScript, C#* — July. 2024 – Present

- Designed a multiplayer rouge-lite dungeon crawler with procedurally generated environments
- Implemented a peer-to-peer networking system with client-side prediction using Godot's built-in API
- Programmed 2D environments, movement systems, and enemy behaviors to promote novel player cooperation

Munchie Bot | *Python, PlayWright, Discord.py, Asynchio* — Aug. 2023 – Present

- Autonomously scraped data from the Epic Games website to update Discord servers on free game promotions
- Developed a web scraping application to parse JSON data and HTML for data verification
- Implemented asynchronous scraping to ensure non-blocking and efficient data retrieval
- Created an automated Discord bot to provide real-time updates on available free games based on site data

Cat Detection| *Python, OpenCV, Yolov8* — Aug. 2023 – Present

- Curated a dataset of 150 high-quality, hand-labeled images to ensure a diverse representation of various poses and environments
- Utilized OpenCV and Yolov8 to develop and train an object detection model, achieving accurate identification of my cats in real-time images and videos

Bird Classification | Python, OpenCV, Yolov8 — Dec. 2023 – Jan. 2024

- Developed an image recognition model to classify different bird species
- Trained the model on a dataset of 200 high-quality images, ensuring a diverse representation of species
- Optimized model parameters to enhance accuracy, achieving high performance in identifying various species

Technical Skills

- **Languages:** *Java, Python, C#, GDScript, HTML/CSS*
- **Development Tools:** *Git/GitHub, Unix/Linux, Visual Studio Code, Eclipse, Godot, Jenkins CI/CD*
- **Libraries:** *OpenCV, Discord.py, PlayWright, Asynchio, JUnit, YOLOv8*

Awards and Honors

Goodnight Scholars Program| Member — *Raleigh, NC* | August 2024 – Present

A Scholarship program at North Carolina State University that provides opportunities for community service, professional development, and personal growth for low- and middle-income students majoring in STEM.