Thomas C. Parisi

Contact: tcparisi55@gmail.com | (315) 949-0106 | GitHub: Tommy-Parisi | LinkedIn: Thomas Parisi | **tommyparisi.com**

College of Engineering • Computer Science BS • AI & Robotics • Cybersecurity

Education

University of Delaware   Newark, DE

GPA: 3.63/4.0   2022-Expected May 2026

- University of Delaware Dean's List in Spring 2023, Fall 2023 & Spring 2024
- **Relevant Coursework:** Machine Learning, Networks, System Hardening & Protection, Algorithms, Artificial Intelligence, Data Mining, Database Systems, Data Mining, Computer Vision
- Robotics Club, Game Development Club - Built 2D platformer *Swapborn* prototype in Godot

Work Experience

Cybersecurity Research Internship. University of Alabama, Huntsville   Remote

Developer   March- May 2025

- Developed automated CAPTCHA analysis system achieving **87% accuracy** using YOLOv11 object detection and Selenium automation, processing **200+ test cases** to identify security vulnerabilities for academic research
- Led agile development process coordinating **4 researchers** through **weekly sprints**, **code reviews**, and **documentation** of ethical security testing methodologies for publication

Technical Skills

Languages: C, C++, Java, Python, JavaScript/TypeScript, HTML/CSS, SQL, GDScript, x64 Assembly

Frameworks & Tools: React, Svelte, Node.js, Git/GitHub, npm, OpenAI API, TensorFlow, OpenCV, NumPy, Sentence-Transformers, scikit-learn

Specializations: Machine Learning (semantic embeddings, clustering, collaborative filtering, computer vision), Systems & Security (SSH, server configuration, Linux administration, key management)

Projects

Semantic File Sorter- AI Powered file organization system

- Designed and implemented a desktop application that semantically clusters and organizes 5,000+ files using **sentence-transformer embeddings, HDBSCAN clustering,** and LLM-based labeling.

Personal Portfolio Website

- Architected and deployed personal portfolio on hardened Ubuntu server with custom DNS configuration and SSL certificates, serving **500+ monthly visitors with 99.9% uptime**
- Implemented security hardening including SSH key-only authentication, fail2ban intrusion prevention and UFW firewall rules, **achieving A rating on SSL Labs test**

AI powered Career Quiz

- Developed interactive web application using GPT-4 API that analyzes user responses across 15 dimensions (skills, interests, values, work style) to generate personalized career recommendations with **89% user satisfaction rate from 25+ beta users**
- Designed responsive and visually fun space themed UI, enhancing user experience

Sage Discord Bot

- Developed features for a Discord bot used by **4,000+ members** in the UD computer science community
- Collaborated with professors and fellow students to research and develop /calendar command
- Utilized Google Calendar API, Google Authentication

for more information visit tommyparisi.com