

Thomas Parisi

School

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

Education

University of Delaware
GPA: 3.63/4.0

Newark, DE
2022-Present

- University of Delaware Dean's List in Spring 2023, Fall 2023, Spring 2024 and Fall 2025
- Robotics Club Member, Game Development Club Member

Work Experience

VIVID Cybersecurity Research Internship. University of Alabama, Huntsville
Developer

Remote
March- May 2025

- Researched CAPTCHA and implemented AI powered Captcha Cracking methods
- Designed and implemented a CAPTCHA solving solution utilizing YOLO, Selenium, and pyautogui

Languages, Frameworks & Techniques:

C, Java, Python, C++, HTML/CSS, JavaScript/TypeScript, SQL, Node.js, Svelte, React, GDScript

Machine Learning: OpenAI API, Sentence-Transformers, NumPy, OpenCV, TensorFlow, Tesseract OCR, Semantic Embeddings, Clustering, Collaborative Filtering, Stereo Vision (region- and feature-based matching), Disparity Mapping, Minimax AI

Cybersecurity: Linux, x64 Assembly, SSH, Tailscale, public/private key management, secure server configuration, Ubuntu/Linux server administration, systemd, process/connection management, Ubuntu VM setup & use

General Tools: Git/GitHub, npm, virtual environments, Oracle, ChatGPT

Relevant Coursework

Data Structures, Software Engineering, Algorithms, Computer Architecture, OOP, Automata Theory, Operating Systems, Logic for Programming, Artificial Intelligence, Data Mining, Database Systems

Projects

Semantic File Sorter- AI Powered file organization system

- Designed and implemented a desktop application that semantically clusters and organizes files using sentence-transformer embeddings, clustering algorithms, and LLM-based labeling.

Captcha Cracking Bot

- Developed an automatic Image Captcha Cracker, it uses YOLO to detect and click on the correct image in a captcha without any user involvement.
- Delegated tasks to team members and coordinated teamwork through agile principles

AI powered Career Quiz

- Developed a web application quiz which helped users find their ideal career path
- Implemented OpenAI API to generate personalized career recommendations based on user responses

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 new features