

Dragos Lup

NYC, NY | [🌐 dragoslup.com](https://dragoslup.com) | [+1 \(646\) 377-5898](tel:+16463775898) | [✉ dragoslup@gmail.com](mailto:dragoslup@gmail.com) | [🐙 github.com/Dragos-Lup](https://github.com/Dragos-Lup)

EDUCATION

Georgia Institute of Technology — BSc, Computer Science , GPA: 3.54/4.0 *May 2025*

Stuyvesant Highschool — Highschool Diploma , GPA: 94.7/100 *May 2021*

PROJECTS

Campus Cats App | TypeScript, React, SQL | Cat Tracking Social App *March 2025*

- Developed a modular and responsive web app for tracking and cataloging campus cats, integrating Firebase authentication and GT SSO for a seamless user and future developer experience.
- Designed an optimized SQL database for efficient data retrieval with 35% faster updates.
- Created an announcement system to notify users about found cats, reducing report processing time

Manga OCR | Python, PyTorch | Japanese Character Recognition *December 2024*

- Tested ResNet, Tesseract and Vision Transformer models to identify Japanese Characters in manga.
- Developed an image preprocessing pipeline, extracting text bubbles, improving speed by 150%.
- Created and augmented a synthetic dataset with labeled images to enhance OCR performance.

Dansu | Python, CUDA, MMPose | Machine Learning Dancing Game *June 2024*

- Play advancing game with only your web camera and body, using a pose estimation library.
- Trained a custom model on a NVIDIA GPU to massively increase frame rate from 4fps to 30fps

Roll The Die | C#, Unity | Classic Roguelike Game *April 2024*

- Endless video game where the player controls a dice, destroying enemies with random effects.
- Created in under 48 hours, with an easily expandable framework to be applied to future updates.
- Focused on simple concepts to get satisfying and expandable mechanics, allowing for future updates

WORK EXPERIENCE

Intern *May 2022 — September 2024*

iTech Computers *Medias, Romania*

- Prioritized full stack development for the existing company website and database systems.
- Optimized the company website back end, creating improvements that enhanced load times by 200%.
- Created an intuitive data input system that streamlined the workflow for teams, improving efficiency.

ACTIVITIES AND AWARDS

Runner Up for GT Global Game Jam *February 2023*

- Designed an evolving map and towers that changed as you played, creating diverging paths.
- Focused on clean and modular fundamentals, using data structures for easy expandability.

SKILLS

- **Coursework:** Procedural Content Generation, Computer Architecture, Algorithms, Computer Vision, Artificial Intelligence, Machine Learning, Deep Learning, Robotics and Perception
- **Technologies:** C#, C++, JavaScript, Python, Rust, HTML, SQL, Lua, GLSL, C, Java, Swift, Go
- **Tools:** React, PyTorch, NumPy, Git, Firebase, Node.js, MongoDB, Unity, Docker, OpenGL
- **Languages:** Romanian (Native), English (Native)