

Dragos Lup

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EDUCATION

Georgia Institute of Technology — BSc, Computer Science, GPA: 3.54/4.0	<i>May 2025</i>
Stuyvesant Highschool — Highschool Diploma, GPA: 94.7/100	<i>May 2021</i>

WORK EXPERIENCE

Full Stack Engineering Intern	<i>May 2022 — September 2024</i>
iTech Computers	<i>Medias, Romania (Hybrid)</i>
<ul style="list-style-type: none">Engineered full-stack enhancements for the web platform, streamlining legacy architectures.Refactored backend to optimize data fetching, resulting in a 3x reduction in page load latency.Developed a high-concurrency data entry interface, improving workflow for internal teams.	

PROJECTS

Nosi Editor TypeScript, Rust Security-Focused Text Editor	<i>July 2025</i>
<ul style="list-style-type: none">Specialized fork of VSCode designed to prevent cheating, currently in use at Georgia Tech.Provides file encryption and decryption, which disables copy and paste, and sharing the files.Disables screensharing, screen recording, and records keystrokes to add multiple levels of security.	

Campus Cats App TypeScript, React, SQL Cat Tracking Social App	<i>March 2025</i>
<ul style="list-style-type: none">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.Optimized SQL queries and indexing, achieving 35% faster updates for high-frequency data.Created an announcement system to notify users about found cats, reducing report processing time	

Manga OCR Python, PyTorch Japanese Character Recognition	<i>December 2024</i>
<ul style="list-style-type: none">Tested ResNet, Tesseract and Vision Transformer (ViT) models to identify Japanese 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	<i>June 2024</i>
<ul style="list-style-type: none">Built a gesture-controlled rhythm game using MMPOSE for real-time pose estimation.Trained a custom model on a NVIDIA GPU to massively increase frame rate from 4fps to 30fpsDesigned a pose-approximation buffer layer to mask processing jitter, ensuring smooth gameplay.	

ACTIVITIES AND AWARDS

Runner Up for GT Global Game Jam	<i>February 2023</i>
<ul style="list-style-type: none">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++/C, JavaScript, Python, Rust, AWS, SQL, Lua, GLSL, Java, Swift, Go
Tools: React, PyTorch, NumPy, Git, Firebase, Node.js, MongoDB, Unity, Docker, OpenGL
Languages: Romanian (Native), English (Native)