

Grant Polazzo

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA, GA

Dec 2026

Bachelor of Science in Computer Science (Threads: Media/ Systems & Architecture), Minor in Economics

Awards: Georgia Tech's Dean's List (Spring 2024) | GSU President's List Fall 2022 & Dean's List Spring 2023.

Clubs: GT Developers, Video Game Devs @ GT, GT Esports, GT Barbell club, GT Calisthenics, GT Climbing Club.

TECHNICAL SKILLS

- Languages: Java, Python, C, C++/OpenGL, C#, JavaScript, HTML, CSS, Typescript.
- Frameworks: Docker, React, Node.js/Next.js, Git, Django, PocketBase, MongoDB, Jupyter Notebooks, Vercel.
- Concepts: Agile, OOP, Data Structures & Algorithms, LLMs, Neural Networks, Computer Vision, Dynamic Programming, UI/UX design, Fullstack development, low level programming, API usage/code libraries.

PROJECTS

PROJECT LEAD – PLANKTON COMPUTER VISION PROJECT | PYTHON, JUPYTER NOTEBOOKS

Jan 2025 - Present

- Lead role in designing a computer vision neural network to identify species of plankton based on a large dataset.
- Upgraded deprecated packages such as NumPy, TensorFlow, Pandas, and others, while redesigning components from previous team implementations.
- Implemented an image preprocessing pipeline, focusing on retaining depth, sharpening object edges, reducing graininess/salt and pepper pixeling, and maintaining constant computational expenses.
- Served as the scrum master & senior developer for a team of 8 to improve upon a codebase untouched for 3 years.

YELLOWJACKET ROLLER DERBY PRACTICE PLANNER | TYPESCRIPT, NEXT.JS

Aug 2025 - Present

- Developed a fullstack app utilizing next.js front end styling with a database storing user accounts, specific user data, practice plan creation, and an ability to export to share with the active userbase.
- Collaborated with executive board members on designing the user interface & user stories.
- Deploying via Vercel & secured via an SSL encryption.

GT ROBOJACKETS INVENTORY/TEAM MANAGERMENTS SYSTEM | TYPESCRIPT, NEXT.JS, POCKETBASE **Aug 2025 - Present**

- Developed a fullstack app hosted via Vercel to improve management of subteams and inventory.
- Implemented and populated a real-time data verification system to validate and ensure accuracy of user information.
- Collaborated with a co-developer and club leaders to launch an online registration system adopted by 100% of active users and managed by admin.
- Spearheaded Frontend UI changes that increased retention of our app among club members.
- Restructured code as generics, split displayed data into pages, and maintained real-time updates with solid OOP coding practices.

GAME BOY ADVANCE EMULATOR & FROGGER CLONE | C, DOCKER

Mar 2025 - Apr 2025

- Implemented GBA hardware-level features in C including DMA, VBlank Sync, & Memory-Mapped I/O.
- Collaborated with 3 developers to create a fully functioning app based on Client specifications.
- Developed Frogger game with custom collision detection, dynamic object moment, & state machine architecture.
- Optimized for GBA hardware constraints, limited CPU cycles, manual pixel manipulation & minimal RAM usage.

AUDIOSCAPE JOURNEY (CUSTOM SPOTIFY WRAPPED) | PYTHON, CSS, HTML, JS, DJANGO **Oct 2024 - Dec 2024**

- Developed a dynamic website leveraging Spotify API to generate & display custom music listening data.
- Designed engaging animations, game logic, and integrated AI using Google's Gemini LLM to enhance our project.
- Employed Agile methodologies to meet client needs for a project that our professor & TAs labeled best in the class.

ATLANTA FOOD FINDER | PYTHON, CSS, HTML, JS, DJANGO **Aug 2024 - Oct 2024**

- Built a map-based application utilizing Google Maps API for restaurant searches by name, type, and proximity.
- Implemented seamless backend logic, accounts, restaurant favoriting & review system, and user-friendly UI design.

WORK EXPERIENCE

BARCELONA WINE BAR - WAITSTAFF **Atlanta, GA | Jun 2024 - Dec 2024**

- Collaborated in a high-pressure team environment, managing 75+ daily customer interactions.

CITY OF ATLANTA, OFFICE OF THE MAYOR - EXECUTIVE INTERN **Atlanta, GA | Jan 2022 - Aug 2022**

- Worked under the Mayor's Executive Assistant & COA Business Manager to organize, research, plan events, research city archives, document finances, and help onboard and advise new interns.
- Synthesised city budget data utilizing Python scripting.