RYAN PIEDRAHITA | *RPIE.DEV*

(201) 640-1938 * rpiedrah@stevens.edu * linkedin.com/in/ryanpie/

EDUCATION

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, NJ   **Grad. May 2025**
Bachelor of Science (B.S.) Computer Engineering   *3.49 GPA*   *Minor in Eng Management*
- **Relevant**: Microprocessor Systems, Computational Data Structures and Algorithms

TECHNOLOGIES

Web Development: MERN Stack (React, Node.js, Express, MongoDB), Next.js, NPM, dotenv, enmap, request, JSON, APIs, TypeScript, Tailwind CSS
Software: Unity and Godot (C#), C++, Familiar with Linux, GIT and collaboration.

PROJECTS

x86 Assembler Simulator   **Jan - Feb 2023**
*github.com/redassser/ASM * redassser.github.io/ASM * HTML / JavaScript*
- Designed an x86-64 ASM simulator to help undergraduate engineering students looking to learn low-level languages without the hassle of setting up an environment.
- Developed with accurate results on the simulated stack, memory and registers in mind for a classroom setting.
- Sponsored by a professor for future use in his Microprocessor systems class.

Unity (box cutter)   **May 2023**
*play.unity.com/mg/other/webgl-build-1076 * C# / Unity Editor*
- Created a simple vertex-based render of squares and boxes with reshaping and spawning.

Discord Bots   **2020 - 2023**
*github.com/redassser/autovc * top.gg/bot/775891705270239263 * Node.js*
- Created a server-side, event-driven Discord chat bot designed to improve user experience on the app.
- Helped and solved any issue brought up to me by current and prospective collaborators concerning discord utilizing the tools provided by the Discord API.

EXPERIENCE

STEVENS PRE-COLLEGE PROGRAM , Hoboken, NJ   **July 2023**
Teaching Assistant
- **Unity Game Design Class**
- Taught a 2-hour evening session every day to the 17 students, ensuring they fully understood the content of that day's classes including programming fundamentals and Unity / C#.
- Directed the students throughout their development process and made sure they could cooperate efficiently.

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, NJ   **Feb - June 2023**
Research Assistant
- **Research Assistant for Associate Professor Dov Kruger**
- Standardized the process for making and implementing front-end elements by creating a template and a method for importing to allow for easy webpacking.
- Lead a team of seven to work on making these elements based on the needs of Professor Dov Kruger and the back-end team.

NJIT PRE-COLLEGE PROGRAM, Newark, NJ   **May - Aug 2022**
Teaching Assistant
- Lead, managed, and challenged 25 8th grade students.
- Worked with other TAs and Teachers to plan lessons and make the most of our class time.
- Cultivated a friendly atmosphere among the students, building their confidence and excitement.