RYAN PIEDRAHITA | *RPIE.DEV*

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Currently studying Computer Engineering at Stevens Institute of Technology with a background in full stack web-app development and future in Software Engineering. Have been programming in Node environments for 5+ years with plenty of experience with clients and their needs, collaborative version control, team development, research and problem-solving.

PROJECTS

x86 Assembler Simulator
*github.com/redassser/ASM * redassser.github.io/ASM/*
- x86 ASM interpreter designed for those who are new to low-level languages.
- Assembler tokenized and translated with realistic console messages, accurate results and easy to understand effect on the simulated stack and memory.
- In development for use in a class setting to aid in learning assembler, with a professor sponsoring its creation for use in his microprocessor class.

yourcalc.net
*github.com/redassser/yourcalc * rpie.dev/projects/yourcalc*
- Client-side dynamic webpage using React with a modern scientific calculator interface.
- Top-down Operand Precedence parsing algorithm combined with a fast regex tokenization/categorization facilitate accurate solutions.

EXPERIENCE

WEST NEW YORK SWIM CLUB, West New York, NJ
Front Desk, Summer 2021
- Greet hundreds of visitors a day and determine their town residency via proof of address, amicably representing the town administration.
- Work with the head lifeguard to ensure a wonderful experience for every attending family.
- Spoke both Spanish and English to a community of nearly all South and Central American immigrants and their families.

NJIT PRE-COLLEGE PROGRAM, Newark, NJ
Teaching Assistant, Summer 2022
- Lead, manage, and challenge 25 8th grade students.
- Work 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.
- Play an integral part in a program designed to encourage students' ingenuity with hands-on projects and get them interested in a future in STEM.

EDUCATION AND RESEARCH

STEVENS INSTITUTE OF TECHNOLOGY
Hoboken, NJ
Bachelor of Science (B.S.) Computer Engineering (Graduating May 2025)
- **Research Assistant for Associate Professor Dov Kruger**
- Front-end structuring of interactive document research
- Animated custom component in a javascript library
- Minor in Engineering Management