Sergio E. Garcia Tapia

https://www.linkedin.com/in/sergio-garcia-tapia/ | https://github.com/segarciat

Work Experience

Software Development Engineer Apprentice | *Amazon*   New York, NY | Oct 2022 — Current
- Collaborated in a team to create a Java game application.

Crew Member (Section Leader) | *Trader Joe's*   New York, NY | Aug 2021 — Sep 2022
- Maintained the Dried Fruits and Nuts section by ordering, stocking, and re-merchandising.
- Engaged customers professionally and enthusiastically in the sales floor and at checkout.

Developmental Mathematics Tutor | *City College of Technology*   Brooklyn, NY | Feb 2022 — May 2022
- Facilitated scaffolded math instruction and tailored supplementation to under-prepared students.
- Provided mentoring to promote effective study habits and overall success in college mathematics.

Assistant Director and Instructor | *Mathnasium*   New York, NY | Jun 2019 — Dec 2021
- Provided an engaging and individualized K-12 mathematics enrichment in a small group setting.
- Supported student learning and enrollment efforts through the administration of assessments.

Projects

PokeTeams | *https://poketeams.xyz/*
- Engineered a Pokémon team-managing website that consumes the external PokeAPI.
- Built frontend with Bootstrap, Sass, and JavaScript, using webpack for modularity.
- Enabled user accounts and persistence with a REST API made with Express.js and MongoDB.
- Deployed to a droplet on DigitalOcean and served by an NGINX server.

Blast Zone | *https://github.com/segarciat/BlastZone*
- Developed a 2d top-down game using the pygame library in python.
- Applied the state design pattern to implement an enemy AI that will patrol, pursue, and flee.

Nand2Tetris | *https://github.com/segarciat/Nand2Tetris*
- Followed the roadmap to implement the Hack digital system and Jack programming language.
- Built the assembler, virtual machine, and compiler for an object-oriented language in C++.
- Learned modular design, API design and documentation, test planning, and quality assurance.
- Leveraged principles of data structures and algorithms, including stacks, hash tables, lists, recursion, and running time considerations.

NelsiFitness | *https://nelsifitness.xyz/*
- Created a fitness trainer landing site that features a BMI tool and daily calorie calculator using HTML, Sass, and JavaScript.
- Interfaced with the Google Charts API to display daily calorie breakdown by macronutrient.
- Applied the module pattern and persisted the macronutrient calculator's data to local storage.

Certifications

https://www.credly.com/users/sergio-garcia-tapia/badges

Oracle Certified Professional in Java SE 11 | Badge
CompTIA A+ ce Certification **|** Badge
Google IT Automation with Python Certification **|** Badge
Google IT Support Certification **|** Badge

Education

SUNY, University at Buffalo   *Buffalo, NY*
B.S. in Applied Mathematics, Minor in Physics   *Aug 2013 — May 2017*
GPA: *3.963*   **Awards:** *Summa Cum Laude, Outstanding Senior Award*

Skills

Python, JavaScript, Java, C++, HTML, CSS, OOP, Data Structures, Mathematics, Teaching, Spanish