

# Sergio E. Garcia Tapia

<https://www.linkedin.com/in/sergio-garcia-tapia/> | <https://github.com/segarcia>

## 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 — Current

- 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/segarcia/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/segarcia/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