# Ethan Phan

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## EDUCATION

**University at Buffalo, The State University of New York**, Buffalo, NY            May 2024
*B.S. in Computer Science*
GPA: 4.0, Honors: Dean's List, Pride of New York Scholarship

**Patchogue-Medford High School**, Medford, NY            June 2021
*Regents Diploma with Advanced Designation*
Weighted GPA: 97.02, Class Rank: 56/639

## EXPERIENCE

*Teaching Assistant for CSE199,* **University at Buffalo**, Buffalo, NY            August 2022
- Assist faculty in teaching students about various computing problems and important computing ideas in relation to society by leading students through recitation activities related to topics discussed in lecture.
- Assess assignments from students and provide quantitive and qualitative feedback promptly.
- Collaborate with faculty and consult feedback on issues regarding the class or recommendations for improving the class.

*Landscape and Garden Designer*, **Bellows Gardens Inc.**, Southampton, NY            June 2019 - Present
- Design and maintain high-end gardens in the Hamptons for private clients.
- Assist in planning the course of action each day.
- Communicate with and understand client preferences to create the best product.

## PROJECTS

*Personal Portfolio Website*, **HTML/CSS and JavaScript**            June 2022
- Constructed and designed a personal website that acts as an online portfolio.
- Website was uploaded to and hosted by GitHub.
- Apply frequent changes to reflect new projects or experiences.

*Abstract Genetic Algorithm*, **Scala**            April 2022
- Engineered a custom genetic algorithm that could be used to produce the best solution to abstract problems given a data set incubator and a cost function.
- Algorithm generated random decimals (genes) that were put in an incubator to create data samples stored in lists. The best samples are saved and mutated. More random genes were added to the list and the process was repeated via recursion.
- Algorithm utilized first-order functions and recursion to complete the task at hand.

*Vaccination Data Web Application*, **Python, JavaScript, and HTML**            December 2021
- Assembled a web application that fetches CDC data and neatly displays the data on a webpage using plot.ly graphs and charts.
- Web application ran on a bottle web server that used AJAX to fetch the necessary data.

## SKILLS

**Computer:** Python, Java, JavaScript, HTML/CSS, Scala, Object-Oriented Programming, Functional Programming, Bottle Web Framework, SQLite3
**Language:** Fluent in English and Vietnamese, Familiar with Spanish