

# Ethan Phan

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## EDUCATION

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**University at Buffalo, School of Engineering and Applied Sciences**, 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

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*Teaching Assistant for CSE199*, **University at Buffalo**, Buffalo, NY August 2022

- Work with faculty to teach students about various computing problems and important computing ideas in relation to society in a recitation.
- Grade assignments from students in a timely manner.
- Meet with faculty to provide feedback on issues regarding the class or recommendations for improving the class and discuss changes that will be made to the class.

*Landscape and Garden Designer*, **Bellows Gardens Inc.**, Southampton, NY June 2019 - Present

- Design and maintain high-end and upscale gardens in the Hamptons for private clients.
- Assist in planning the course of action for the company each day.
- Communicate with clients and understand their preferences to design and create the best product.

## PROJECTS

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*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 created 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 fetched CDC data and neatly displayed the data on a webpage that utilized plot.ly graphs and charts.
- Web application ran on a bottle web server that used AJAX to fetch the necessary data.

## SKILLS

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**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