

# Zachary Szeto

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## EDUCATION

### Worcester Polytechnic Institute

August 2022 - May 2026

Worcester, MA

- Bachelor of Science in Computer Science
- GPA: 3.75

▪ Relevant Coursework: Systems Programming, Intro to Program Design, Algorithms, Object-Oriented Design, Software Engineering, Operating Systems, Foundations of CompSci, Networks, Intro to Machine Organization and Assembly

### Dover-Sherborn High School

August 2018 - June 2022

Dover, MA

- GPA: 4.57/4.0

## SKILLS

Java • Python • C++ • C# • Racket • HTML and CSS • MatLab • IntelliJ • Eclipse • Visual Studios • WebFlow • Figma • Unity Engine • Native Fluency in English • Conversational Spanish, JavaScript

## Work Experience

### Drobots Company

June - July 2023

- **Educated** and **advised** 100+ underprivileged grade school students through hands-on activities such as game development, drone construction and programming, and robotics challenges utilizing the Sphero SPRK+

### Burrito Bistro

June 2021 - August 2022

- **Facilitated** communication between customers and the kitchen while performing numerous other roles including cashier, customer service and maintenance

## PROJECTS & RESEARCH

### Transportation Data Analysis and Optimization

March - May 2023

- **Developed** a robust program to filter airports based on GPS location, effectively identify travel hubs, and detect overlapping flights using linear probing in a hash table. Employed depth-first search to determine the connectivity of the graphed airports and implemented Floyd-Warshall's algorithm to find the shortest paths between any two airports
- **Analyzed** the highway network of America to compute the shortest path from the western-most highway to the easternmost highway using breadth-first search and implementing Dijkstra's algorithm

### Global Project Seminar: Sustainability

August 2022 - December 2022

- Food Waste at WPI: Researched the causes and impacts of food waste at WPI. Explored possible solutions such as food tracking, public education, and composting

## VOLUNTEER WORK

### Universal Education Initiative

May 2023 - Present

#### Lead Website Developer

- **Designed** and **built** the organization's website using WebFlow and Figma
- **Produced** computer science-related curriculum for children in developing countries specifically Merida, Venezuela

### Mashpee Recreation

June 2018 - August 2019

#### Camp Counselor

- Volunteered 30 hours a week designing and implementing activities that encouraged curiosity and creativity among campers (k-8th)

## ACTIVITIES

### FRC and FLL Robotics

#### Programmer and Student Mentor

- **Founding member** of the Brain Busters Robotics Team, a **STEM nonprofit** providing extracurricular STEM opportunities to students 5-12 in the form of **robotics competitions & education**.
- **Facilitated & mentored** younger students in FLL, mentored & supported build teams.
- **Massachusetts State Champion** in FIRST Lego League and went to the World Championship in Detroit, Michigan

### Society of Asian Scientists & Engineers

#### Event Committee

- Developed programming to aid incoming freshmen acclimate and presented proposals to the executive board