

Alonso Morales

Email: j27morales@gmail.com

[Portfolio](#)

Summary

Sophomore student currently attending Illinois Institute of Technology, majoring in computer science. Have worked developing video games, computer vision programs, websites, and data structures and algorithms with various programming languages like Java, Python, C, SQL, HTML, CSS and OCaml.

Education

Illinois Institute of Technology - Chicago, IL

Anticipated Graduation: **May 2025**

Major: B.S in **Computer Science**

GPA: **3.3/4**

Work Experience

- DuckieBot Intern - Toyota Technological Institute at Chicago Jun 2019 - Jul 2019
- Built a duckiebot, a small robot with the aim of creating an autonomously driving community
 - Tested the duckiebot's driving capabilities with remote control
 - Programmed a script to be able to send a signal from the laptop to the duckiebot
- Technology Management Intern - Lindblom Math & Science Academy Jun 2018 - Aug 2018
- Organized desktops, laptops, and tablets
 - Installed any necessary software and updated software.
 - Kept track of inventory on school technology: Computers, laptops, projectors etc

Extracurricular

- Lead Programmer - FIRST Robotics Lindblom Electric Eagles Oct 2017 - May 2021
- Organized and structured the goals of the programming team ultimately resulting in regional championship out of 40 teams
 - Helped plan lessons to teach the new members of the programming team (4-8 people in the team)
 - Programmed the robot for competitions implementing various functions including:
 - A self-leveling elevator mechanism to allow the robot to climb any of 2 unique platforms
 - A python computer vision system to track yellow balls for autonomous collection
 - An autonomous routine that allows the robot to shoot 3 balls at a target then collect 3 more balls
 - A flexible state machines that allowed us to create various autonomous paths and routines for the robot to execute
- Lead Graphic Designer- FIRST Robotics Lindblom Electric Eagles Oct 2017 - May 2021
- Designed the team's logo and shirts for every season
 - Designed and created other team apparel like buttons and stickers

Courses

- Data Structures and Algorithms - Illinois Institute of Technology Jan 2021 - May 2021
- Used various data structures to organize data and implemented algorithms to efficiently search through that data
 - Applied those data structures and algorithms in a project to organize a book in alphabetical order
- Game Design and Development - Lindblom Math and Science Academy Sep 2018 - May 2021
- Ideated and planned games either individually or in a team
 - Designed assets for the games, including art and sound
 - Programmed and developed games using Java
- Web Design and Development - Lindblom Math and Science Academy Sep 2020 - Dec 2020
- Developed websites using HTML, CSS and Javascript
 - Planned out websites designs with moodboards

Awards

- Lindblom Highschool Senior CTE Award June 2021
- One of two students out of 150 selected based on CTE achievements and academics
- IIT Dean's List Feb 2022