

# John Le

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## Projects

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### Writer Bot

*Python*

- Developed an altered hash table ADT to write a text of a length specified by the user, based on a given input text using the Markov Chain Algorithm. Ensuring the resulting text had similar word and grammatical structure as the original text by grouping different "prefixes" with words that followed them.

### Wordle

*Java*

- Created a replica of the game "Wordle" using multiple classes to represent different aspects of the game. The game was created in a team of 4, using GitHub as a main collaboration space for everyone. The program featured an intuitive design which featured different animations similar to the real "Wordle". Additionally, a user account system was implemented which featured local serialization and persistence.

### Particle Simulation

*C++*

- Created a simple rigid-body particle simulation, rendered in SFML, where collisions of circle particles were solved using verlet integration. The simulation allows for hundreds of circle particles to exist and collide with each other at a time.

## EDUCATION

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### University of Arizona

*Bachelor of Science, Computer Science*

**May, 2025**

*Tucson, AZ*

- Certificate for CTE Program Technical Standards (Software and App Design)
- Wildcat Recognition Tuition Scholarship
- Member of SHPE (Society of Hispanic Professional Engineers)
- Workshop Lead for circuit design workshop (ALEX 2024)

### University High School

*High School Degree*

**May, 2021**

*Tucson, AZ*

- Multiple AP Courses Taken
- 3.5+ GPA
- Member of SHPE Jr. for 2+ years (Society of Hispanic Professional Engineers)

## SKILLS

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Java; Python; Assembly; C; C++; JavaScript; HTML; CSS; Excel; Github; JavaFX; SFML; Microsoft Visual Studio; Microsoft Visual Studio Code; Microsoft Office;

## Courses Taken

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CSC 120: Introduction to Computer Programming II; CSC 144: Discrete Mathematics for Computer Programming; CSC 252: Computer Organization; CSC 335: Object-Oriented Programming and Design; CSC 345: Analysis of Discrete Structures; CSC 352: System Programming+Unix

## WORK EXPERIENCE

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**Black Rock Coffee Bar**

**Nov. 2023 – Present**

*Barista*

*Tucson, AZ*

- Monitored and participated in food preparation methods, portion sizes, and garnishing and presentation of food to ensure that food is prepared and presented in an acceptable manner
- Greeted customers and provided a great personal relationship between worker and customer.
- Established standards for personnel performance and customer service.

**Red Lobster Restaurant**

**Jan. 2023 – Nov. 2023**

*Host / Busser*

*Tucson, AZ*

- Welcomed guests and managed seating in a friendly and welcoming manner.
- Ensured that all dining areas were properly set up for guests.
- Promptly cleared and reset tables for incoming customers.
- Assisted wait staff with taking orders delivering food and drinks while still cleaning and seating tables.
- Handled customer complaints in a professional manner and followed up to ensure customer satisfaction.

**Silver Saddle Steakhouse Restaurant**

**Jan. 2021 – Jan. 2023**

*Busser*

*Tucson, AZ*

- Assisted servers in delivering food to tables and bussed tables.
- Ensured that tables were kept clean and orderly in accordance with restaurant standards.
- Followed procedures for handling food and complicated situations.
- Promptly responded to customer requests and inquiries.