

# JACK WONG



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Silver Spring, MD



<https://github.com/jwongcentral>

## EDUCATION

### University of Maryland, Baltimore County

Bachelor of Computer Science

Graduated

Aug. 2020 - May 2023

GPA: 3.49

## SKILLS

Python  
Django  
Flask  
Matlab  
SQL  
SQLite  
MongoDB  
JavaScript  
Java  
JavaFX Package  
C  
C++  
C#  
HTML  
CSS  
Bootstrap  
Agile  
Scrum  
Unix distributions  
Minecraft Modding  
Roblox Modding  
Open Multi Processing (OpenMP)

## COURSE WORK

Artificial Intelligence  
Parallel and Distributed  
Processing  
Computer Networking  
Software Engineering

## EXPERIENCE

### Instructor

*ID Tech | Jun. 2022 - Present*

- Providing technology support occasionally to provide students with knowledge and programming skills using C/C++, Python, Java, JavaScript, C, C++, C#, Minecraft modding, and Roblox modding.
- Designed and facilitated high-level technical training sessions and coding workshops for other educators.

### Lead Instructor

*Panda Programmer | Nov. 2020 - Jul. 2022*

- Led student lessons in Scratch, Python, and JavaScript in a classroom setting.
- Managed and collaborated, as lead, with a team of assistant instructors during student class sessions.
- Conducted training sessions for onboarding programs.
- Coordinated and performed coding workshops for assistant instructors on new coding subjects.

## PROJECTS

### Full-stack Developer — Skyfall Web Game

*University of Maryland Baltimore County's School of Computer Science | Feb. 2023 - Present*

- Using Python, JavaScript, Phaser API, and SQLite.
- Implemented an Agile methodology and lead the team using Atlassian software to operate and organize the team's logistics, coding, and direction of the project.
- Configured a web game with its own API.

### Developer — Parallelization Project

*University of Maryland Baltimore County's School of Computer Science | Feb. 2023 - May. 2023*

- Programmed using OMP and C to showcase certain parallel practices, concepts, and methodologies.
- Algorithm Prefix Sum - Parallelization of a common sequential program.
- Consecutive Primes - Optimized prime number searching algorithm to make the system more efficient.
- Bucket Sort - Included other sorting algorithms to increase overall efficiency.

### Developer — AI Project

*University of Maryland Baltimore County's School of Computer Science | Sep. 2022 - Dec. 2023*

- Applied solutions to real-life situations using Python and AI concepts such as A star, DFS, BFS, AC3, and other algorithms to solve Sudoku and Jug problems. Solved the jug problem is a heuristic problem that can be solved by implementing A star to direct the AI to proceed in a desirable fashion.
- Deployed AC3, forward checking, and backward checking to solve and complete the Sudoku puzzle.

### Developer — Minesweeper Solver/A\* Algorithm

*Personal Project | Sep. 2021*

- Deployed the Minesweeper with A star in congruence with forward checking and backward tracking to make intelligent and safe decisions to solve the puzzle.
- Utilized Java and the JavaFX package.