

Ziyu Zhao

Actively Learning and Passion of Problem Solving

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Education

2021.9-present	McGill University	Honour Computer Science
GPA 3.86/4		
2020.1-2021.5	Vanier College	Pure and Applied Science (DEC)
Graduated with Dean's Honour List		

Project experience

Github username : ZhaoZiyu1998
Snake game by python and pygame
CS188 Pacman project (ongoing)
Several coding projects followed by online videos with Tensorflow, NumPy, and Scikit-learn to practice:
Linear regression, Knn, K-mean, A* for pathfinding, AI for flappy bird game

Major knowledge from course

Math:
Calculus: Single and multivariable, Vector Calculus(gradient, divergence, and curl)
Linear Algebra: Matrix Operation, Determinant, System of Linear Equations, Vector Space, Linear Mapping, Orthogonality, and Eigenvalues &Eigenvectors
Probability and Statistic: Sample Space, Conditional Probability, Bayes's Theorem, Known distributions, WLL, CLT, Sampling Distribution, Estimation, and Hypothesis Testing
Discrete Math: Logic, Number Theory, and Graph Theory
Computer Science:
Programming Languages: Python, C, Bash, Java, R, Ocaml, Mips
Data Structure and Algorithm: BFS, DFS, Time Complexity, Divide and Conquer, Dynamic Programming, ADTs, Stringology, Trees, Information Theory, Compression
Artificial intelligence(basic): Machine Learning, Neural Network (by projects above)
Miscellaneous: Unix, Assembly Languages, Combinational&Sequential Logic, RAM, Finite State Machine, and Programming Paradigms