ANDREW LU

1402 Regent Street ◇ Madison, Wisconsin 53711

13858 Firelight Way ◇ Apple Valley, Minnesota 55124

(559) · 321 · 1858 ◇ andrew.lu41915@gmail.com ◇ github.com/Serlthree

EDUCATION

University of Wisconsin, Madison *September 2022 - Present*
Expected Graduation: May 2025
B.A. in Computer Science, B.A. in Math
Relevant Coursework: Deep Learning in Computer Vision, Data Structures and Algorithms, Calculus (I,II,III),
Linear Algebra, Discrete Mathematics, Real Analysis, Graph and Network Theory
Current Overall GPA: 4.00

TECHNICAL SKILLS

Computer Languages	Java, C++, C, Python, JavaScript
Tools	Windows, Visual Studio Code, Git, GitHub, Jupyter Notebook, Linux, LaTeX

PROJECTS

Blackjack Calculator Janurary 2023
JavaScript *Personal Project*

· Used JavaScript to create a script for a blackjack calculator that advise the user on how to bet based on the cards left in the deck.
· Uses card counting to determine the probability of the user winning the hand and the probability of the dealer busting.
· Then used the card counting data to calculate the optimal bet size using the Kelly Criterion.

Competitive Programming September 2021 - Present
C++ and Java *Personal Project*

· Developed knowledge on applying data structures and algorithms to solve problems, such as minimum spanning trees, dynamic programming, and segment trees
· Developed a strong understanding of C++, complexity analysis, problem solving, and verifying correctness of algorithms
· Solved 200+ problems in both Codeforces and Leetcode, respectively

Implementing Deep Learning Algorithms Janurary 2022 - May 2022
Python *School Project*

· Implemented neural networks, linear classifiers, and common deep learning algorithms such as CNNs and GANs using Python and Jupyter Notebook
· Developed a strong understanding of how modern deep learning algorithms work and how to implement them

Data Science on Kaggle May 2022 - Current
Python *Personal Project*

· Used machine learning techniques and data science techniques to solve problems on Kaggle.
· Developed a strong understanding on data analysis, data visualization, data augmentation, and machine learning techniques to solve problems.

AWARDS

1590 SAT Score (Math: 790, Reading: 800)
Summa Cum Laude (3.98 GPA) at Eastview High School
National Merit Commended Student
AIME Qualifier
Dean's List (x2)

INTERESTS

Technical Interests	Machine Learning, Competitive Problem Solving, Data Science
Other Interests	Football, Basketball, Swimming, Video Games, Music