# ADAM WANG

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github.com/adamw24 · adamw24.github.io

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## Education

**University of Washington, Seattle**                                                                 Class of 2024

Computer Science Major at the Paul G. Allen School

GPA: 3.90

Relevant courses: Hardware/Software Interface (CSE351), Data Structures and Parallelism (CSE332), Software Design & Implementation (CSE331), Foundations of Computing I (CSE311), Computer Programming II (CSE143), Beginning Scientific Computing (AMATH301), Calculus with Analytic Geometry III (MATH126), Intermediate Microeconomics (ECON300), Introduction to Linguistics (LING200)

Proficiency: Java        Other Languages: Python, C

**Newport High School, Bellevue, WA**                                                                 Class of 2020

GPA: 3.96 (Unweighted)                              SAT Math II: 800

SAT: 1540                                            SAT Physics: 800

Relevant courses: Linear Algebra, AP Calculus AB/BC, AP Physics C, AP Physics 2, AP Statistics, AP Chemistry, AP Biology, AP Micro/Macro Economics, Biotechnology

Honors: Knight Valor (+350 volunteer hours), National AP Scholar, National Merit Honorable Mention

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## Projects

- Personal Website: adamw24.github.io
    - Learned web development and built responsive webpages from scratch using HTML, CSS, and JS. Showcases my project and photography portfolios.
- Data Analysis and Processing:
    - Used stock market data to generate Monte Carlo projections and find the best day to buy/sell.
    - Extracted and parsed personal social media data to reveal activity and communication trends.
- Computer Vision:
    - Experimented with lighting, angles, and obstructions for facial recognition ability using OpenCV.
- Math and Physics Simulations:
    - Brownian motion: 2D elastic collisions between particles using momentum and energy principles.
    - Produced Sierpinski's Triangle and approximated Euler's Number using randomization
    - Generated visuals including Koch's Snowflake Fractal and Binary Trees
- Games:
    - Created computer opponents that can play sub-optimally to mimic human performance
    - Recreated classic games including BMTron, Pong, and Tic-Tac-Toe.

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## Work Experience

- Private Tutor (2019, 2020, 2021)
    - Individually tutor English, Algebra 2, Geometry, Pre-Calculus, and AP Chemistry
- Abercrombie & Fitch Brand Representative (2019, 2020)
    - Paid job: I gained professional retail experience, customer service skills, etc.
- Freelance Photographer (2020, 2021)
    - Take portrait photos for group and individual events including prom, senior portraits, etc.
- Evergreen Health Hospital Volunteer (2019, 2020)
    - Transported patients, performed lab runs, assisted visitors, ran the information desk, etc.
- Tyee Middle School Math Club Coach (2018, 2019, 2020)
    - Taught middle schoolers competition math every week, prepared for competitions
- Wise Camps Counselor (2018, 2019)
    - Organized and oversaw labs and activities in chemistry and pre-med biology camps