

# Adam Wang

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## Education

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**University of Washington, Seattle**

GPA: 3.90/4.0

Expected Graduation 2023

**Computer Science – Data Science Major at the Paul G. Allen School**

Relevant courses: Data Structures and Parallelism, Intro to Algorithms, Hardware/Software Interface, Software Design & Implementation, Systems Programming, Data Visualization, Intro to Data Management, Foundations of Computing I/II, Data Science Foundations, Calculus with Analytic Geometry III

**Proficient Languages:** Java

**Other:** Python, R, JavaScript, ReactJS, C, C++, Git, Gitlab

Newport High School, Bellevue, WA

GPA: 3.96/4.0

Graduated 2020

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## Projects

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**Eve** – Azure Speech Dictation & TTS

- Implemented speech dictation and TTS for my personal desktop assistant; can opening programs, performing web searches, switching windows, locking computer, and self-termination/restart

**Clothing Neural Network** – Machine Learning, TensorFlow

- Created a neural network that categorizes clothes; improved it to successfully process online images

**Facial Recognition & Foreground Processing** – Python OpenCV

- Experimented with lighting, angles, and obstruction for facial recognition and foreground detection capabilities

**Stock Market Analysis** – Python

- Built Monte Carlo projections that simulate future prices of assets; found the best day of week to buy/sell assets

**Conway's Game of Life** – ReactJS

- Constructed the zero-player cellular automaton; explored the concept of Turing complete and undecidability

**Brownian Motion Simulation** – Python

- Simulated random motion of particles due to collisions with medium, used physics to create accurate collisions

**Arcade Games** – Python, ReactJS

- Recreated games like Mine Sweeper, BMTron, Pong, and Tic-Tac-Toe, with optional computer opponents
- Deployed static web applications on Azure

**Personal Website** – HTML, CSS, JavaScript

- Learned to build responsive webpages from scratch; contains on-page navigation, parallax, interactive dropdowns

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## Experience

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**Private Tutor**

Jun 2019 – Present

- Taught AP Calculus, AP Physics, AP Chemistry, and other classes to middle and high school students

**Freelance Photographer**

Apr 2019 – Present

- Photographed group and individual events including prom, senior portraits

**Tyee Middle School Math Club Coach**

Sep 2017– Jun 2020

- Taught competition math to a class of middle schoolers weekly, prepared them for regional and national competitions

**Abercrombie & Fitch Brand Representative**

Jul 2019 – Feb 2020

- Promoted sales, gained customer service, communication, and time management skills in a professional setting

**Newport High School Rocketry Club**

Sep 2018 – Jun 2020

- Leadership team; qualified and competed at The American Rocketry Challenge Nationals

**Evergreen Health Hospital Volunteer**

May 2019 – Dec 2019

- Transported patients, performed lab runs, assisted visitors, operated the information desk,