

# Kyle Zhang

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## Experience

DECODE 2022 Technology, and Innovation Conference - Program Director, May 2022 - Present

- [DECODE](#) is a non-profit organization with a mission to democratize knowledge and opportunities around the future of work in tech and entrepreneurship, and bridge academia with industry.
- With roots from being the largest tech and innovation conference co-hosted with UC Berkeley and Stanford students and alumni, DECODE aims to provide a platform where students and working professionals can better adapt to the future of work enabled by exponential technologies.
- Directing the program team for the 2022 Decode Conference & cooperate the program with the teams of partnerships/sponsorships, community and operations
- As a University of Pennsylvania student and one of DECODE's first direct connections towards the east coast, I serve a bonus role of unifying the east and west coast of startups, companies, and academia.
- Conference will be held on November 5 (@ UC Berkeley) and November 6 (@ Stanford)

Co-Founder & Full Stack Developer, Valorant Web Service <https://LineupsValorant.com/>, July 2021 - Present

- [6k Upvotes Reddit](#)
- Designed and developed the innovative web service for the Valorant video game community to revolutionize how players search for lineups.
- The web service provides interactive dynamic real-time supports for millions players in the Valorant community.
- Launched on 4/30/2022, as of 5/15 we currently have 5k active users / day.
- More info (PPT) @ <http://t.ly/8gOZ>

Quant & Strategy Development Intern, WaterValley Capital Management, April - September 2021

WaterValley is a quant hedge fund in HongKong. Trading future contracts and calculating trends in securities markets demands sophisticated algorithms and AI. As an intern on their small exceptional research team, I learned tremendously and was able to accomplish a lot -

- Processed / aggregated China futures tick data
- Applied the data into CTA backtest framework
- Tuned the parameters and algorithms to optimize the quality of backtest performance
- Recommendation letter available upon request from [CEO Tom Tang](#)

Technology Instructor, ITeach-ILearn & CFAP Youth Council, May 2020 to August 2022

Designed three online technology courses with hands-on projects. Taught 180+ students thru online classes offered by ITeach-ILearn & CFAP Youth Council, two non-profit organizations for fostering

leadership and technology interests in the youth. (<https://github.com/RiptideStar/2021SummerTechClasses>)

- [Python Programming with AI & Machine Learning Projects](#)
- [Game Programming Using Unity & C#](#)
- [Learn Python, Web Crawlers, Website Creation & Data Visualization with Hands-on Projects](#)
- Recommendation letter available upon request from Dr. Lou

Initiator & Developer, Covid19 Vaccine Finder website <http://vaccine19.us/>, April 2021

- Designed and Developed a Covid19 Vaccine Finder website for helping people find and register for vaccine shots.
- The website keeps crawling / checking / reporting covid19 vaccine sign-up sites for availability.
- Registered users are notified immediately when available vaccine spots are found.
- Technology stack: Python + Flask + Shell Scripts + SQLite + html
- Source code is open in my Github: <https://github.com/RiptideStar/covid19signupStatus>

Research Intern, Nan Cancer Research Lab at Oregon Health & Science University (OHSU), June - Sept. 2019

- In 8 weeks under the supervision of Dr. Nan in his Lab, a leading Cancer Imaging Lab nationwide, I implemented and automated multimodal microscopy with NanoJ-Fluidics using low-cost Lego hardware controlled by ImageJ-based software.
- I applied the knowledge I learned from FLL & FTC (robotics competitions) to automate the image capturing based on this [research paper published on Nature](#) using the Lego robotics hardware.
- Recommendation letter available upon request from Dr. Nan <https://ohsu.edu/school-of-medicine/nan-lab>

Software Lead, FTC Robotics Team (Fellowship of the Robot), Sept. 2018 - Mar. 2020

- Leading Software Programming for the team
- Won prestigious FTC Collins Aerospace Innovate Award in the State Championship
- Top 10 team in Oregon (out of 209 teams)
- Qualified for 2019 World Tournament Championship in Houston representing Oregon

Software Lead, Destination Imagination Team, Sept. 2015 - May 2016

- Led the design and implementation of a robotic squirrel using Lego hardware
- Won the State Championship and represented Oregon in the World Tournament at the University of Tennessee. Ranked 19th worldwide.

## Leadership and Services

- Wharton Hedge Fund Club (WHFC) Quant Macro Team, University of Pennsylvania
- Advisory Board member for Wharton Undergraduate Founders and Funders Association (WUFFA), University of Pennsylvania
- Ambassador for [Meet an M&T](#), University of Pennsylvania
- Founded the AI (Artificial Intelligence) Student Club at Lake Oswego High School, 2021.
  - As the president of the AI Club, I facilitate discussions and events for fellow students to explore and learn AI technology.

- Organize and host computer science panel discussions
- Invited two professors, Dr. Fern from Oregon State U and Dr. Zhao from Washington State U as panelists discussing and answering questions for high schoolers.
- Information and Recording <http://t.ly/FRIY>
- My final remarks - [video clip](#)
- Captain of Varsity Tennis Team at Lake Oswego High School
  - Qualified for State-Level competition
  - Led the team to be the top in the district athletically and academically
- Volunteer for non-profit organizations - creating / maintaining websites for them
- Organize and host camps and classes in summer, winter and spring breaks
  - Host and coach tennis camps every summer since I was 12. Coached 40+ kids tennis to inspire them to be active with sports. Enjoyed the time with them.
  - Designed and taught technology classes online (Python, Web and Game Programming, AI & Machine Learning etc). 180+ students have enrolled in my tech classes since summer 2020.
- Counsel kids with video gaming issues
  - Organized and held panel discussions on Psychology of Gaming & How to Manage/Balance with School Life for parents and children.
  - Counseled kids in my community struggling with video gaming issues in last 3 years.
- Volunteer in the annual Portland Rose Parade every year since I was 9.

## Skills

Python, Java, C++, C#, JavaScript, Linux Shell, SQL  
AI, Machine Learning, Neural Network, TensorFlow, Keras, Selenium /  
WebDriver  
VS Code, MS Visual Studio, MATLAB, PyCharm, OpenCV, Git/GitHub, Unity,  
Unreal

## Education

### University of Pennsylvania, Jerome Fisher M&T Dual Degree Program, 2022-2026

BS in Economics, The Wharton School  
MS in Computer Science, PennEngineering

### Lake Oswego High School, Lake Oswego, OR. May 2022

Weighted GPA: 4.47, Unweighted GPA: 4.0 (all A's)

### Computer Science, Portland Community College, OR, 2019 - present

CS140, CS160, CS161, CS162, CS179, CS233, CS250, CIS284, CS260, CIS275,  
EC201, EC202, MTH261  
GPA: 3.92

**Robotics and Quantum Computing by Prof Perkowski at Portland State University, OR 2020**

**Machine Learning, Online Class by Andrew Ng, Stanford University, 2020**

## My Awards

- FTC Robotics Collins Aerospace Innovate Award in the State Championship 2019
- 2022 Coca-Cola Scholars Semifinalist
- 2022 Duke University Robertson Leadership Scholars Semifinalist
- 2022 University of Oregon Stamps Scholars Semifinalist
- 2022 University of Oregon Presidential Scholarship and Summit Scholarship
- 2022 Oregon State University Presidential Scholarship and Finley Academic Excellence Scholarship
- 2022 University of Washington Purple & Gold Scholarship
- 2022 University of California, Irvine Distinguished Director's Scholarship
- Portland Community College President's List 2020, 2021, 2022
- AP Scholar with Honor and Distinction, 2019, 2020, 2021
- Tennis Sectionals Champion, 2018, 2019
- CFAP Youth Council Community Service Award, 2021
- Lake Oswego High School Honor Roll, 2019, 2020, 2021
- 2022 Scholastic Art & Writing Awards, Silver Key for Personal Essay
- Elks Scholarship 2022
- First Tech Scholarship 2022 <https://www.firsttechfed.com/discover/scholarships>
- IBM Thomas J. Watson Memorial Scholarship 2022
- US President's Volunteer Service Award, 2021

## My Websites

- <https://LineupsValorant.com/> A website for the valorant community to revolutionize how players search for lineups.
- <http://vaccine19.us/> A covid19 vaccine finder and signup site.
- <https://github.com/RiptideStar/> My GitHub home since 2018.
- <http://RiptideStar.com>
- <https://www.linkedin.com/in/kyle-zhang-b5ba5a23a/>

## My Hobbies

- Tennis - I have been playing tennis since 4 years old.
- Cross Country and Soccer - I like sports in general.
- (Video) Gaming - played in tournaments when I was younger 😊
- Gym