

# Kyle Zhang

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Lake Oswego, Oregon | Kyle.Zhang@pcc.edu | 503-782-7009 | <https://github.com/RiptideStar/AboutMe>

## Experience

Summer Intern at Nan Cancer Research Lab at Oregon Health & Science University (OHSU), 2019

- Over 400 hours 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.
- Basically, I applied the knowledge I learned from FLL & FTC (robotics competitions) to leverage the Lego robotics hardware to automate the imaging process based on this [research paper published on Nature](#)

Technology Instructor at Tech4Kids & CFAP Youth Council, May 2020 to Present

Teaching Students with hands on technology projects (Code in GitHub below):

- [Python Programming with AI & Machine Learning Projects](#)
- [Game Programming Using Unity & C#](#)
- [Python Programming, Web Crawlers, Website Creation & Data Visualization with Hands-on Projects](#)
- Psychology of Gaming & how to manage and balance it with School Life for parents and children

Lab Assistant, Chemistry Lab at Oregon State University, 2020

Under the supervision of Dr David Ji, I implemented the data processing program using Python (GitHub below):

- [Python program processing chemistry research data](#)

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

- Leading Software Programming for the team
- Top 10 team in Oregon (out of 209 teams)
- Qualified for 2019 World Tournament Championship in Houston.

Software Lead, Destination Imagination Team, 2015

- 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.

## Skills

Python, Java, C++, C#, JavaScript, Linux Shell  
AI, Machine Learning, Neural Network, TensorFlow, Keras

VS Code, MS Visual Studio, MATLAB, PyCharm, Unity, OpenCV, Git/GitHub

## Education

### Computer Science, Portland Community College, OR

CS140, CS160, CS161, CS162, CS179, CS233, CIS284, CS260, EC201, EC202  
GPA: 4.0

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

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

### Lake Oswego High School, Lake Oswego, OR

Planned Graduation 2022  
GPA: 4.5

## Volunteer / Community Service

- Teaching community students on computer science, game development (c#, c++), and AI (python)
- Helping students with video gaming problems
- Coaching tens of kids on tennis (since I was 12) thru private lessons and camps - Inspiring kids to be active with sports
- Recruiting fellow students to the robotic team and to inspire others to innovate
- Volunteer in the annual Portland Rose Parade every year since I was 9