

Kyle Zhang

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Experience

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

- Over 400 hours under supervision by 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:

- [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 supervision by Dr David Ji, I implemented the data processing using Python:

- [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#, 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