Kyle Zhang

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Experience

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

- Over 400 hours in Nan 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 by Nature

Teaching Students on Computer Skills thru Tech4Kids & CFAP Youth Council, May 2020 to Present

- 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

Data Processing using Python, Research Project with Dr David Ji at Oregon State University, 2020

- Python program processing chemistry research data

Lead School Robotics team (Fellowship of the Robot), 2018 - 2020

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

Destination Imagination 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

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Python, Java, C++, C#, Linux Shell
AI, Machine Learning, Neural Network
VS Code, MS Visual Studio, MATLAB, PyCharm, Unity
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Education

Computer Science, Portland Community College, OR

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

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Planned Graduation 2022
GPA: 4.5
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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