

Education

Oregon State University, Corvallis, OR
Bachelor of Engineer: **Computer Science**

Expected Graduation: June 2020
CS Core GPA: 3.87

Skills

C++,C#,C,Java,Python,JavaScript,jQuery,Typescript,React,Html,CSS,Node.js,MongoDB,Assembly,Golang,Haskell,MVC,Façade format.

Work Experience

Electro Scientific Industries

April 2019 to Sep 2019

High Tech Company – **Software Engineer Intern (6months)**

Portland, OR

- Worked with a group of three mentors including two senior software engineers and one system engineer.
- Made a C# software app to process **100,000 plus of data** from machine and **apply different algorithms** to data.
- Implemented algorithms including **Peaks and valley detect, Polynomial best fit of curve, Normal distribution best fit of curve, Logistic regression.**
- Helped the user to **draw graph** and do **data analysis** with different algorithms and **select the threshold to separate good and bad chips.**
- Joined group meetings, discussed the problems of project, **purposed my solution**, received feedback and revised my plan.

Oregon State University – College of Engineering

September 2017 to Present

Introduction to Computer Science – **Teaching Assistant**

Corvallis,OR

- Conduct a 10-week lab that has **30 students.**
- Hold up to 6 hours of office hours that assists students to debug and understand class contents.
- Graded assignments and provided quality feedback.
- Taught a 20 people's recitation, explain C++ knowledge, taught the common skills of problem solving and graded quiz.
- The major class topics including pointers and reference, OO programming and dynamic memory.

Center for Applied System & Software

June 2018 to Sep 2018

Contractor Company – **Student Programmer**

Corvallis,OR

- Worked with a group of two professional software engineer mentors and three student developers.
 - Applied full-stack skills to make a website for school test system.
 - Used MVC, jQuery, Advanced-CSS, React to build front-end & back-end.
 - Designed the UI with jQuery and CSS, impletemented the back-end with React and C#.
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Major Projects

★ Muti-Algorithms – Data Processing and Data Analysis tool with different algorithms

1. Six months personal project at my 2019 internship.
2. C# software application that used Façade design pattern, windows form, Dll, and ML algorithms.
3. It's able to process 100,000 plus of machine data and apply different algorithms to get different results
4. Peak and Valley detection helped user to find a list of peaks and valleys, it would be marked in the graph too.
5. Polynomial fit helped user to draw the best fit of curve for the current dataset, user could select the number for the power of the equation.
6. Normal distribution fir helped user to draw the best fit of normal distribution curve, user would get the number of mean and standard deviation.
7. Logistic Regression helped user to find a threshold to separate two groups of data.
8. The app is expandable and flexible. Programmers are able to add more DIY algorithms.

★ SmarterBalanced Website – Full Stack web development Group project at Internship (MVC, jQuery)

1. Worked as a member of the professional group from the Contractor company.
2. Built multiple website pages for a school testing system.
3. Used React and jQuery to support the page functions and allow the translation between English and Spanish.
4. Used MVC design pattern and C# to support the transform and data storage of the different pages.

You can find all the above projects through this link <https://github.com/TJC1997/CS-Work>