Yuhang Chen (Tony)

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**Education**

Bachelor of Engineer: Computer Science Expected in March 2021

Oregon State University Corvallis, OR

Junior Standard

**GPA: 3.87** Dean's List [2017-2019]

**Skills**

|  |  |
| --- | --- |
| * C++ * C# * C * Java * Python * JavaScript * JQuery | * React * Node.js * Mongo DB * Assembly * Haskell * MVC * Facade Format |

**Work History**

**Software Engineer Intern** Apr 2019 - Sep 2019

Electro Scientific Industries, High Tech Company Portland, OR

* Made one C# software app to process 100,000 plus of data from machine and applied different algorithms
* Implemented algorithms including Peaks and valley detect, Polynomial best fit of the curve, Normal distribution best fit of the curve, Logistic regression
* Helped user to draw graphs and do data analysis with different algorithms and select threshold to separate good and bad chips

**Full-Stack Programmer** Jun 2018 - Sep 2018

Center for Applied System & Software, Contractor Company Corvallis, OR

* Applied full-stack skills to make a website for a school test system
* Used MVC, jQuery, Advanced-CSS, React to build front-end & back-end
* Designed website UI with jQuery and CSS, implemented website back-end with React and C#

**Teaching Assistant** Sep 2017 - Current

Oregon State University - College of Engineering Corvallis, OR

* 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 including pointers and reference, OO programming and dynamic memory, taught the common skills of problem-solving and graded quiz

**Projects**

* ***Muti-Algorithms – Data Processing and Analysis tool with different algorithms***1. Six months of a personal project at my 2019 summer internship.  
  2. C# software application that used the Facade 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 users to find a list of peaks and valleys, it would be marked in the graph too.  
  5. **Polynomial fit** helped users to draw the best fit of the curve for the current dataset, users could select the number for the power of the equation.  
  6. **Normal distribution fit** helped users to draw the best fit of the normal distribution curve, users would get the number of mean and standard deviation.  
  7. **Logistic Regression** helped users 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
* ***Smarter-Balanced Website – Full-Stack web development Group project***1. Built multiple website pages for a school testing system.  
  2. Used React and jQuery to support the page functions and allow swapping the translation between English and Spanish.  
  3. Used MVC design pattern and C# to support the transform and data storage of the different pages
* You can find all the projects and extra info through this link **https://github.com/TJC1997/CS-Work**