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**