

# YUHAN CHEN (TONY)

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## Education

### Bachelor of Engineer: Computer Science

Oregon State University

Junior Standard

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

Expected in March 2021

Corvallis, OR

## Skills

- C++
- C#
- C
- Java
- Python
- JavaScript
- JQuery
- React
- Node.js
- Mango 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 curve, Normal distribution best fit of curve, Logistic regression
- Helped user to draw graph 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 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

- **Multi-Algorithms – Data Processing and Analysis tool with different algorithms**
  1. Six months personal project at my 2019 summer internship.
  2. C# software application that used 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 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 fit** 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
- **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>**