YUHANG CHEN (TONY)

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Education

Bachelor of Engineer: **Computer Science** Graduated in June 2021
Oregon State University Corvallis, OR
GPA: 3.94 Dean's List [2017-2021]

About Me

- From Beijing, China. Live in Portland, OR.
- Graduated from **Oregon State University** (Go Beavs!)
- Enthusiastic in Computer Science, especially interested in **Artificial Intelligence/Machine learning.**
- Married to ♥ Kaitlin ♥ (**Applying Green Card now and should get it within 2 years**).
- Love Basketball and Soccer! Love shopping from **Amazon** and Costco!
- Love working hard and improving myself every day!
- Current under OPT with F1 visa.

Research Experience

Baby behavior psychology analysis
Feb 2020 - July 2020
Alan. Fern (Professor and Associate Head of Research at Oregon State University) Corvallis, OR

- Joined Dr. Fern's **ML research group** as an undergraduate research assistant and worked with another Ph.D. student.
- According to the videos from NYU Psychology Research Lab, I helped the Ph.D. student to make a visualization website, to simulate the movements of babies and toys. I added multiple features including detect the interactions between babies and toys, log this history of babies and toys movements, etc.

Self-Aware Comedy Robots
Sep 2019 - June 2020
Naomi. Fitter (Assistant Professor at Oregon State University) Corvallis, OR

- Joined Dr. Fitter's **Robot research group** and did a senior capstone project with her for a year.
- Developed software by using Praat library to **extract raw data** from the recorded audio of the comedy robot. The raw data information includes Mean, Max/Min, Standard deviation of Intensity, and pitch.
- Created a Python software by using **scikit-learn** to train machine learning models and help the robot detect and classify if the audience laughs during or after the joke. The models include K-nearest-neighbor, Random Forest, Support vector machine and Ensemble model of all three previous models. My team improved "post-Joke classification" accuracy from **53% to 85%** and set "Mid-Joke classification" accuracy to **73%**.

Work History

Software Engineer
July 2021 - Present
Siemens EDA (Mentor Graphics), EDA Software Company Portland, OR

- Working for the **Calibre PERC** team and developing new features for the Calibre tool, which is a **leading EDA software**.
- Currently in training to learn about IC design related knowledge
- Developing new features of **UPF commands** and applying them into the current Calibre Product. (UPF is short for Unified Power Format).

Software Engineer Intern
June 2020 - Dec 2020
Siemens EDA (Mentor Graphics), EDA Software Company Portland, OR

- Did a six-month internship with the Calibre PERC team and mainly used **C/C++ and Python**.
- Implemented and supported two major UPF commands with various related options. Wrote all related unit tests to make sure the commands were bug-free. (UPF is short for Unified Power Format).
- Received **high reviews** from my mentors and my teams, got a **full-time return offer**.

Software Engineer Intern
Apr 2019 - Sep 2019
Electro Scientific Industries, Semiconductor Related Company Portland, OR

- Made a C# software to process **100,000 plus** of data from machine and applied different algorithms to analysis data and help system engineers make decisions.
- Implemented algorithms including Peaks and valley detection, Polynomial best fit of the curve, Normal distribution best fit of the curve, Logistic regression (**Classify data into two groups**).
- Helped system engineers to draw graphs and do data analysis with different algorithms. As a result, they can select a threshold to separate good and bad capacitor chips.

Skills

C, C++, C#, Python, Java, JavaScript, jQuery, React, scikit-learn, Assembly, fast-learner