





Samuel (Xiaoyang) Chen

2A Computer Science
University of Waterloo

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SUMMARY OF QUALIFICATIONS

- Languages and Tools: C/C++, Python, JavaScript, HTML, CSS, R, Git, Ubuntu, Microsoft Office
- Excellent verbal and written communication skills through working as a CS and Math teaching assistant
- Strong problem solving and time managing skills shown by balancing between work and study
- Proficient collaboration and team working skills gained from team sports and team projects

PROJECTS

Enron Scandal Analysis | April. 2020

- Implemented **data visualization** using **Pandas** and **Scikit-learn** from Python on Jupyter Notebook
- Applied **machine learning model Decision tree** for the data set, with **average accuracy value of 80%**
- Preprocessed data to **normalize** data and automatically identify and remove outliers in the data set
- Compared different classification models such as **Decision Tree, SVM, and Random Forest**
- Understood how **supervised learning**, and **reinforcement learning** works through making the project

Personal Website | April. 2020

- Implemented the website frontend using **HTML, CSS, and JavaScript**, deployed using **Google Cloud**
- Developed the website without specific experience in 2 weeks, showing an ability of **fast learning**
- Built up the backend using Python with **Flask framework**, and connected with the frontend
- Learned and practiced with website making applications to truly understand and apply the contents

WORK EXPERIENCE

CS and Math Teaching Assistant | Easy Education | Waterloo | Jan. 2020 – April. 2020

- Assisted students improve their question solving skills on Data Structure, Fermat Little Theorem, and Linear Congruence, raising students' final exam marks by over **5%** at the end of the term
- Conducted **online tutoring, question solving demonstrations, and office hours** to help students understand complex Math concepts and solve difficult math problems during COVID-19 quarantine
- Tutored different types of students using strong **oral** and **written** communication skills, having a good reputation among students and coworkers with over **90%** of good response and satisfaction rate
- Balanced **workloads** and **study** with proficient time managing skills during busy final exam period

EDUCATION

Candidate for Bachelor of Computer Science

University of Waterloo, Waterloo, ON

Sept. 2019 – Present

Major GPA: 95/100

- Awards and Achievement: President's Scholarship of Distinction, **Top 4%** in the 2019 Euclid Math Contest
- Relevant Courses: Data Structure, Imperative Programming, and Object-Oriented Software Development

INTEREST

- **Basketball:** Gained team collaboration and mamba mentality from playing basketball over 8 years
- **Piano:** Maintained concentration skills and insistence through playing the piano for more than 12 years