Samuel (Xiaoyang) Chen

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2A Computer Science
University of Waterloo

SUMMARY OF QUALIFICATIONS

- Languages and Tools: **C/C++, Python, Bash**, JavaScript, HTML, CSS, R, Git, Ubuntu, Microsoft Office
- Excellent verbal and written communication skills gained from working as a teaching assistant
- Strong problem solving and time managing skills developed from balancing between work and study
- Impressive collaboration and team working skills obtained from team sports and team projects

PROJECTS

Enron Scandal Analysis| April 2020
- Performed **data visualization** using **Pandas** and **Scikit-learn** from Python on Jupyter Notebook
- Applied **Decision Tree Classifier** to the dataset, resulting in an **accuracy value** of **84.7%**
- Preprocessed dataset to normalize data, and automatically identified and removed outliers of the data
- Compared different classification models such as **Decision Tree, SVM, and Naive Bayes**
- 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 previous experience in 2 weeks, showing an ability of to **learn quickly**
- Built 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| January 2020 – April 2020
- Tutored 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
- Assisted different levels of students using strong **oral** and **written** communication skills, maintaining a good reputation with **90%** excellent satisfaction rate among students and coworkers
- Balanced workloads and study with proficient time managing skills during busy final exam period

EDUCATION

Candidate for Bachelor of Computer Science   Sept 2019 – Present
University of Waterloo, Waterloo, ON   **Major GPA: 95/100**
- Awards and Achievement: President's Scholarship of Distinction, **Top 4%** in the 2019 Euclid Math Contest
- Notable Courses: **Data Structure**, **Object-Oriented Software Development**, and **Algorithm Design**