Tony Xia

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Education

University of California, Los Angeles   **June 2023**

Bachelor of Science, Computer Science, GPA: 4.0

CS 31 Intro. to C++ Programming

Math 32A Multivariable Calculus

Stanford University, Stanford   **June—August 2018**

CS 106B Programming Abstraction

CS 193C Client-side Web Technology

Technical Skills

Python, C, C++, Java, JS, HTML, CSS   **Vue.JS, Express.JS, Node.JS, React.JS**

Microsoft Office Suite, Git, GitHub   **Octave, MATLAB, TensorFlow**

Relevant Experience

Snorpheus – Automatic Chord Analyzer | StarterHack 2019   **January 2019**

- Utilizing recurrent neural network developed a Chord Analyzer given an audio file using Tensorflow
- Integrated the software in a web page for ease of access

Image Recognition Project | Waterloo Collegiate Institute   **May—June 2019**

- Developed with a team a machine learning program to recognize constellations
- Utilized Python TensorFlow to create a ConvNet for image classifications

Personal Website | Side Project   **Dec 2019—**

- Designed and developed a modern-looking portfolio using JavaScript, HTML, CSS
- Quickly learned several techniques to create modern and interactive webpages

Super Slime Rumble | Waterloo Collegiate Institute   **June 2018**

- Developed an intense 2-player platformer shooting game using python 3
- Experienced the full software development cycle

AP Scores Analysis Project | Waterloo Collegiate Institute   **May 2018**

- Discovered the trends of the change of AP score distribution
- Using Microsoft Excel, organized 10 years of AP exam data
- Analyzed the score distribution of 17 AP exams in the past 10 years

Leader of Math Club | Waterloo Collegiate Institute   **July 2017—May 2019**

- Taught contest mathematics techniques to interested students
- Scored in the top 5% in multiple national math contests
- Organized events to show members the applications of math outside the curriculum

Computer Science Club | Waterloo Collegiate Institute   **January—May 2019**

- Learned over 10 different computer algorithms and data structures in spare time using C++
- Scored in the top 25 % of the Senior Division of the Canadian Computing Contest