

# ERIC XIAO

Aspiring web developer, programmer, and mathematician.

📍 Waterloo, Canada

@ erixrekt69@gmail.com

🔗 mathlord2.github.io

in linkedin.com/in/xiaoe5800/

🔗 github.com/mathlord2

## WORK/VOLUNTEER EXPERIENCE

### Educational Assistant

#### Kumon North America, Inc.

📅 Jul 2017 – Present

📍 Waterloo, Canada

- Marking and correcting the Math and Reading worksheets of students and answering student questions related to the worksheet questions.
- Recording student data on an online spreadsheet and sorting out student files.
- Answering phone calls and responding to questions from adults and students at-centre.

### Olympic Math Teacher Assistant

#### Grand River Chinese School

📅 Sep 2018 – Present

📍 Waterloo, Canada

- Monitoring student behaviour, participating in math discussions, and answering student questions related to the lesson.
- Making lesson plans and teaching lessons whenever the main teacher is absent.
- Contributed questions to and proctored The Nine Chapters On The Mathematical Art Contest for 2018 and 2019.
- Teaching various online math lessons during the COVID-19 crisis (first ever online lessons for the school).

## SKILLS

- Software:
  - Python 2 and 3
  - Tkinter
  - Web development (HTML, CSS and SASS, Javascript and JQuery, Svelte, React, Node.js)
  - Java and Processing
  - PyTorch
  - APIs (Google Cloud, Firebase, Microsoft Azure, Fortmatic)
  - LaTeX
  - Solidity and Truffle.js
  - Command Line (Windows and Linux)
  - Google Apps
  - Microsoft Office
- Keen attention to detail
- Superb communication
- Initiative to try and learn new concepts
- Excellent time-management and organization
- Critical-thinking

## EDUCATION

### High School Diploma

#### Sir John A. Macdonald Secondary School

📅 Sep 2017 – Present

- CS Club, Mathletes, Science Club, Senior Band, Intermediate Jazz, Chess Club

## HONORS & AWARDS

- Won WinHacks 2020's Most Innovative Hack Against COVID-19 Award (\$1000 CAD prize).
- Made honour rolls (Group II) and earned Distinction Award (top 25%) for the 2020 CEMC Fermat Math Contest (score of 144/150).
- Made honour rolls for Southwestern Ontario in the 2019 Canadian Open Mathematics Challenge (score of 58/80).
- Won Fortmatic's 3rd place 250 CAD (190 DAI) API prize at ETHWaterloo 2019.
- Received second place at JAMHacks 3 (prize includes Maple License and Indico credits).
- Won third place in the ECOO regionals competition, earning a spot to finals.
- Earned Distinction Award (top 25%) for the 2019 CEMC Euclid Math Contest (score of 76/100).

## PROJECTS

### JAMHacks 3 - Offline Assist

- Provides offline usage of Google services; mainly Google Assistant.
- Running on a Linode server, the user sends an SMS to a Twilio number, which sends and receives requests from the Google APIs.

### Summer Project - Bibyyou

- A web application that allows you to make a bibliography for each of your documents.
- Can create sources in MLA, APA, or Chicago by filling in inputs.

### ETHWaterloo 2019 - Blocktalk

- A secure messaging platform that uses IPFS to encode messages and store their hashes on the blockchain.
- Fortmatic's login API is used for authentication.

### ETHDenver 2020 - TornadoCatch

- A DApp that raises awareness for privacy issues within the Ethereum network.
- A Node.js catcher server obtains wifi data from TShark and anonymous chain activity from Tornado.cash and matches them to be displayed on a Chrome extension.

### WinHacks 2020 - COV-AID

- A web application that improves the process of obtaining financial aid during the COVID-19 crisis.
- Google Cloud Vision API extracts text from a government ID photo, which is analyzed in the backend for eligibility, and Metamask and smart contracts prompt the transaction.

### TOHacks 2020 - COV-Vision

- A web platform that allows doctors to diagnose a patient for COVID-19 and send data to their accounts.
- Doctors and patients sign up with a Google/email account through Firebase authentication and Firestore stores their personal data.
- A Keras machine model running on a Node.js server analyzes chest x-ray images for COVID-19.