

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
 - Flask
 - 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 the Second Place Prize at MasseyHacks VI.
- 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.

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.

MasseyHacks VI - CogniTalk

- A web platform that analyzes user audio responses to various interview questions and maps their performances on a table to view areas of improvement.
- Users sign up with an account using Firebase authentication and their data is stored in a Firestore database.
- The Flask backend uses Python scripts from a Praat phonetics framework library to analyze audio.