

ALEX YUAN

Last Updated September 5th 2020

I primarily work with full-stack web development, machine learning, and computer vision technologies.

WORK EXPERIENCE

SOFTWARE ENGINEER

BRIDGESPACE.IO | JUNE 2020 - PRESENT

- Built a landing page which generated **13,500 page views** and **3,000 leads** with **Netlify**, **AWS Lambda**, and **Mailchimp**
- Maintains a LMS that receives **2 million requests** and **13,000 unique visitors** a month with **99% uptime** with **AWS Lightsail**
- Assisted development of a live event hosting solution with **PHP** and **cPanel**
- Engineered a live event broadcasting platform using **AWS Chime**
- Deployed a customized meeting solution using **Jitsi**
- Built a WordPress plugin to authenticate with **AWS Cognito**

CO-FOUNDER, SOFTWARE ENGINEER

OCULUSINVENTA.COM | MAY 2020 - PRESENT

- Built a customized **Ghost CMS Handlebars** theme, deployed with **AWS Lightsail** and integrated with **AWS SES**
- Integrated analytics platforms such as **Google Analytics**, **Amplitude**, **Admiral**, and **Hotjar**
- Publishing purposeful journalism, commentary, and podcasts

PROJECTS


PRETTIER HACKER NEWS READER

HN.ALEXYUAN.ME | JUNE 2020

- Engineered a Y Combinator Hacker News reader using **React** and **Hacker News API**; deployed with **Netlify** and **Cloudflare**
- Shows the reader relevant articles using the **Algolia REST API**

BAZAAR - RUHACKS 2020

GET-BAZAAR.HEROKUAPP.COM | MAY 2020

- Built and deployed a web application used to coordinate purchases and transactions of goods using **Django**
- <https://github.com/alexwhy/Bazaar> 

EQUATIONSPACE | LEAD FRONT-END ENGINEER

EQUATIONSPACE.COM | DECEMBER 2019 - JANUARY 2020

- Implemented a real-time collaborative graphing calculator by using **Desmos API** and **Firebase Firestore**

ABOUT

Resides in Toronto, Ontario, Canada

Studies Geomatics at the University of Waterloo

LINKS



alex yuan.software@gmail.com



<https://linkedin.com/in/alexwhy>



<https://alex yuan.me>



<https://github.com/alexwhy>




<https://angel.co/u/alexwhy>

SKILLS

- HTML, CSS, Javascript
- React
- Next.js
- React Material-UI
- Firebase
- Bootstrap
- Python
- Django
- Wagtail CMS
- Heroku
- Netlify CMS
- Mailchimp
- Java
- Git/GitHub
- OpenCV
- scikit-learn
- Keras
- Auth0
- AWS


CORONAGLOBE (COVID-19 GLOBE VISUALIZATION)

CORONAGLOBE.ALEXYUAN.ME | FEBRUARY 2020

- Designed a 3D globe visualization of COVID-19 cases around the world using **Google WebGL Globe Toolkit** and **Python**
- Parsed data from Johns Hopkins CSSE
- <https://github.com/alexwhy/coronaglobe> 


NLP FOR STOCK MARKET PREDICTION

OCTOBER 2019

- Trained a ML model used to predict stock market fluctuations from word embeddings with **Word2Vec** and **scikit-learn**
- <https://github.com/alexwhy/archived-stock-market-nlp-prediction> 


CREDIT CARD FRAUD DETECTOR

SEPTEMBER 2019

- Trained a TSNE model to detect credit card fraud using **scikit-learn**
- <https://github.com/alexwhy/credit-card-fraud-detection> 

ROAD SEGMENTATION ENCODER-DECODER CNN

OCTOBER 2019

- Built an CNN model capable of segmenting road images from the **KITTI dataset** using **OpenCV** and **Keras**
- <https://github.com/alexwhy/archived-kitti-dataset-road-segmentation> 

LANE DETECTION USING COLOUR SPACES AND POLYNOMIAL REGRESSION

JANUARY 2019

- Designed an application which detects lane lines using colour space filtering and regression using **OpenCV** and **NumPy**

LEAD FRONT-END ENGINEER

SEMESTERSHARE.COM | DECEMBER 2018 - JUNE 2020

- Built a timetable sharing platform using **React** and the **Material-UI** framework
- Connected with backend API powered by **Spring** and **Oracle Cloud**

EDUCATION

UNIVERSITY OF WATERLOO

2020-2025 | UNDERGRADUATE IN GEOMATICS

- Planning to minor in computing

A.Y. JACKSON SECONDARY SCHOOL

2016-2020