

# Enoch Tang

Systems Design Engineering



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## Work Experience

### Software Developer

Terrene Inc.

Jan 2018 – April 2018

- Implemented **artificial neural network** algorithms which significantly reduced overfitting by **60%**; used by businesses to reduce inventory overhead.
- Created machine learning pipelines on model metadata using **Django**, **PostgreSQL**, **AWS**, **Pandas**, and **ML libraries** which provides insights to improve models accuracy.
- Decreased runtime of data scraper by **80%** by implementing C level algorithms in Python
- Utilized **VueJS** and **graphing libraries** to visualize inventory data through clientele portal

## Projects

### TheatreShare

Web-Application

- Created **full stack** application that allows users to watch videos and chat together in real time using **Django**, **Redis** and **VueJS**
- Developed server **REST APIs** to handle user **authentication** and store user data
- Implemented **WebSockets** using a Redis queue as a message broker for instant video streaming and chatting

### Immersify

Web-Application

- Developed a web application that visually scans texts, assigns a sentimental score, and plays instrumental music pertaining to that emotion
- Utilized **Google Firebase**, **IBM Watson**, **Google Vision API**, and **Angular2** to create a streamline web application.
- Hackathon **winner**. Best use of Google Platform's API.

### Gangl

Design Project

- Collaborated with 5 other members to launch project from start to finish by utilizing the agile **design process**
- Conducted extensive **needs assessment** research and learnability **user testing** which improved overall usability of the final mobile application

## Skills

### Languages:

Python	JavaScript
C++	HTML
Java	CSS

### Technologies:

Django	Redis	Jupyter
Vue	PostgreSQL	Git
Pandas	Docker	
Keras	Bash	
SciKit	AWS	

## Education

Systems Design Engineering

University of Waterloo, BAsC  
Candidate

Relevant Courses: Digital  
Computation, Human Factors in  
Design

## Hobbies

Muay Thai, Weight Lifting,  
Photography, Basketball, Flute