Timothy Gu

timgu.me

github.com/timchenggu123

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University of Waterloo Computer Engineering 2022 (3A Academic Term)

Experience

Focus Data Engineering

Wayfair LLC Boston, MA, Ian - Apr 2020

Data Engineering -Wrote a MDX to LookML SQL translator and a SQL interpreter using Python for a

meta data verification tool that on average saves 6-8 hours of time for the data

Android (Java) engineer per week.

Development. -Creatively modified the tool to perform ad-hoc data migration/generation tasks

that saves days of work for the data engineer.

Full Stack Web -Pioneered new internal data delivery tool and assisted in designing its schematic Development

and structure.

-Troubleshot SOL scripts that are halting the internal data stream flow.

Languages

AWS

Bash

AutoCAD

Chinese

Data Analyst

C Federal Gov. Environment Canada. May - Aug 2018

C++ -Created scripts that migrate data from Access to SQL Server using MatLab and CSS

HTML -Independently analyzed 17 years of air quality data using R and identified

Java significant insights. JavaScript

MatLab **Engineering Assistant**

Python Municipal Gov. South Frontenac Township. Sep – Dec 2017

SQL -Independently created a traffic data management tool that can visualize traffic R

data in Excel with Google API.

Tools Front End Developer/Project Coordinator

Qing Path Technologies. Jan – Apr 2017

Android Studio -Created websites for local businesses using BootStrap following Agile

Development practices.

BootStrap **Projects**

Docker Save Mi

Git Winner @ 2019 Eng Hack

Google Cloud ML powered Android app that helps identify allergies with photos.

React PyTorch Flow Al

Shell Winner @ 2019 Hack the North

Linux Google Assistant App capable of live generate presentation from speech.

Other Skills Flash Memorize Droid

Android flashcard app that can generate a deck from a .txt file. Supports lots of

shuffling algorithms.

Japanese Orange Script

PhotoShop A full-fledged interpreted programming language built from scratch using C++. Driver's License

Dynamically typed and supports automatic garbage collection.

Extracurricular

UW SAE Autonomous Vehicle Team

Core member. High Level Data Fusion Team

High level image-sensor-navigation data stream fusion with ROS using C++ and Python.

UW Concrete Canoe and Toboggan Team

Software Captain.

Use machine learning and computational fluid dynamics to solve concrete

problems! Also maintains the website.