

TERRY WANG

 terry@tianyu.wang

 226-978-9898

 linkedin.com/in/wtyanan

 github.com/wtyanan

 www.tianyu.wang

Skills

Languages

JavaScript, TypeScript, HTML5, CSS3, Python, Java, C++, C

Frameworks

Node.js, Express.js, Passport.js, React, Redux, React Native, Mocha, Bootstrap 4, jQuery, Spring, Flask

Databases

MongoDB, MySQL, Redis

Other

Git, Linux, Mac OS, Windows

Education

University of Waterloo

4A, Bachelor of Computer Science

Sep 2016 – May 2021

Relevant courses

Object-Oriented Software Development,
Operating Systems,
Computer Networks,
User Interfaces

Experience

Software Product Prototyper Co-Op

Deloitte

Kitchener, ON Canada

Jan 2019 – Apr 2019

- Built a web application for validation with **React**, **Material UI**, and **Bootstrap 4**
- Implemented React components including Table with sorting feature, Navigation bar, and Modal
- Utilized **multiprocessing** techniques to improve the **running speed** of data processing Python scripts by **300%**
- Developed **web scrapers** for collecting annual reports and patent data using **Selenium**
- Developed Python scripts for cleaning and generating word embeddings for text data using **spaCy**, **fastText**, and **USE**

Software Developer Co-Op

Finastra

Toronto, ON Canada

May 2018 – Aug 2018

- Worked in an **agile** software development environment to develop, maintain, and improve platform modules with **JavaScript**
- Created a **Yeoman** generator with package selection feature for quick microservice scaffolding
- Developed a logging module with **Bunyan** and **RxJS**
- Implemented an **Express middleware** to validate incoming requests with **AJV** and **JSON Schema**
- Built a messaging agent with the ability to send a single or a batch of messages synchronously

Software Developer Co-Op

China Mobile Group Design Institute Co., Ltd.

Beijing, China

May 2017 – Aug 2017

- Utilized **Quicksort** algorithm to sort user location data by coordinates for analyzing user behaviors
- Developed a program with **C** to divide Baidu Map into a matrix of coordinates and map out collected data
- Improved user experience of internal website by implementing **responsive** features for mobile device

Projects

KWCSSA Official Site

github.com/KWCSSA/official-site

- A **responsive website** displaying information and showcasing events of Kitchener-Waterloo Chinese Students and Scholars Association
- Implemented a password-protected admin page for easy content management, features include content updating and **drag and drop re-ordering**
- Created **authentication** flow between front-end and back-end with **Passport.js**, **Express Session**, and **Redis**
- Developed **RESTful API endpoints** supporting **file uploads**, **email notifications** for new messages, and **CRUD operations** for site contents
- Built with **React**, **Redux**, **Bootstrap 4**, **Node.js**, and **Express.js**

WATCOURSE

github.com/KWCSSA/watcourse

- A **mobile first web application** allowing UWaterloo students to explore courses and lookup real-time course information polled from UWaterloo API, including available seats in different sections
- Utilized **React Virtualized** to render a list consists of over 2000 courses, offering a smooth scrolling experience
- Implemented a search bar with **partial search term matching**
- Developed with **React**, **Redux**, **Node.js**, **Express.js**, and **MongoDB**