

JENNA (ZHAN) LU

✉ zhanlu0523@gmail.com ☎ (639)471-2250 📍 111 St. George Street, Toronto, ON in jenna-lu-028853165 🗣 Zhanlu00

EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science | Program GPA: 3.48 | Expected Graduate Year: 2022

Sept. 2018 - Current

EMPLOYMENT

College of Engineering, University of Saskatchewan, *Student Research Assistant*

May 2018 - Aug. 2018

- Independently developed a web application on wastewater preliminary treatment that computes the optimized equalization tank volume for the best performance and economic efficiency.
- Designed and implemented an algorithm that using **numerical methods** to estimate the changes in the waste water.
- This project saved 95% time and money for calculation and simulation for the wastewater treatment industry.

TECHNICAL SKILLS

PROGRAMMING LANGUAGES: Python, C, JavaScript, Java, PostgreSQL, PHP, UML

DEVELOPMENT RELATED: ReactJS, NEXTJS, UIKit, Bootstrap4, HTML, CSS, Node.js, MongoDB, Postman

OTHERS: Firebase, Google App Engine, Quartus, ModelSim, LaTeX, Verilog, Software Design Patterns, Scikit-learn, Supervised ML

SELECTED PROJECTS

Online TDRFA - A Financial Chatbot Advisor

Sept. 2019 - Sept. 2019

An online chat bot that gives TD customers personal financial advice based on their profile and account activity (the information sourced from the **TD Da Vinci API**).

- Written the front end in **ReactJS**, and backend in **Python**.
- Hosted the whole web app on **Firebase** and deployed on **Google App Engine**.
- This is a project participated in Hack the North 2019.

Photolawn Frontend Web Application

Aug. 2019 - Oct. 2019

A start up company webapp that is a reliable, secure and easy to use platform between photographers and clients.

- Proficiently translate the UI design into actual website code. Making dynamic websites basics on user preference.
- Constructed and styled the website by **Next.js** and **UIKit** respectively.

File Manager

Mar. 2019 - Apr. 2019

A file management software that visualized files by their size with simple use by four keyboard buttons.

- Modelled hierarchical data using tree maps, and implemented recursive operations on trees to generate a geometric tree visualisation.
- Created user interface to manage the files with the use of **OS library** to write a program that interacts with local computer's file system.

Youtuber Analysis Application

Jan. 2019 - Jan. 2019

A website that takes a youtuber's profile link and returns a report with a detailed analysis of one's views, likes and comments.

- Designed webapp looking and implemented the design to front end in plain **HTML** and styled by **Bootstrap**.
- Made the web app responsive to client and build communication between frontend and backend using **JavaScript**.

ACTIVITIES

WWA International Conference, Presenter

Nov. 2018 - Nov. 2018

- Given an oral presentation at the first LACYW about my web app on wastewater treatment.

VOLUNTEERING

CSSU- Computer Science Student Union, *Office Operation*

May 2019 - Current

CSSU- Computer Science Student Union, *Orientation Leader*

Sept. 2019 - Sept. 2019

ICSS - Innis College Student Society, *Orientation Leader*

Aug. 2019 - Sept. 2019