**Shangzhou Xia**

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**EDUCATION**

**Master of Information, Concentration: Human centered Data Science & User Experience Design, September 2022 – April 2024, Co-op from May to December 2023**

University of Toronto, Toronto, ON

* GPA 3.85
* Programming for data science A-

**Bachelor of Media Production and Design, Co-op Option, September 2018- April 2022**

**Minor of Philosophy, September 2018-2021**

Carleton University, Ottawa, ON

**RELEVANT SKILLS, EXPERIENCES, AND ACCOMPLISHMENTS**

**Data Analyzing**

* Statistical methods: modelling and testing
* Data analyzed by **R and Python**
* Proficient in using **Tableau, Power BI and Vega lite** for data visualization purposes
* Elementary machine learning through R

**Programming**

* Organized and styled website by using XML, HTML, CSS, JavaScript, jQuery
* Coding by C/C++/C#
* Built the database for a local bookstore usingMySQL and PHP

**Communication Skills**

* Accustomed to working in groups during academic projects and range of club and society involvement
* Confident oral communication skills as demonstrated delivering presentations at university and during subject-related conferences

**WORK EXPERIENCE**

**Teaching Assistant February 2021 – May 2021**

Carleton University, Ottawa, ON

* Response to students’ posts
* Answer students’ questions
* Grading students’ work and term paper

**Information Officer – Research Funding (Co-op) May 2021 – August 2022**

Carleton International, Ottawa, ON

* Cleansed the data
* Analyzed the data and made visualizations by Power BI
* Redesign department websites
* Made and cut Podcast
* Created ArcGIS storytelling for international projects
* Communication with supervisor and other faculty members

**Part-time Research Assistant Sep 2022 – recent**

Toronto Metropolitan University, Toronto, ON

* Developed the AI chatbot by Dialog flow
* Administrated students’ survey
* Managed the development of video of learning
* Enhanced AI chatbot
* Supported and monitored the AI chatbot performance
* Wrote the related report

**APPLIED PROJECTS**

**Programmer and Designer September 2018-December 2018**

G-alaxy-Site: Find your own game! <https://github.com/Jo814Xu/G-alaxy-Site>

* Worked closely with the other student to build a web gallery to show games
* Programmed by HTML, CSS and JavaScript

**Projector leader and Programmer January 2020-April 2020**

**Data Visualization of Career in Ottawa**

* Found and analyzed the datasheet from Open Ottawa, and Evaluated it pertaining the solution
* Worked closely with two other students to design the sketches of website and visualizations
* Programmed using CSS, jQuery and Vega lite

**Project Leader and Editor September 2020-December 2020**

Bookstore Database

* Worked closely with three other students to make a database for the fictitious bookstore
* Utilized exceptional organizational skills when collating information and data
* Conducted a presentation on ER and EER diagrams which generated thoughtful discussion among classmates

**Complete the entire project independently January 2021-April 2021**

Civic Engagement Project: <https://arcg.is/zv0Pm>

* Investigated the impact of highways on wildlife in Banff Park
* Wrote the research report
* Drew all animal illustrations
* Made visualizations and infographics based on research data
* Created ArcGIS storytelling project

**Capstone Project September2021-April 2022**

Renaissance Masterpiece: 3D Virtual Exhibition Tour

* Researched artworks and the Middle Age
* Wrote the research report
* Modelling most of VR scenes and architectures
* Presented the project

**Data Scientist and Programmer September 2022-December 2022**

**Data Analysis and machine learning of OJ**

* Analyzed the relationship between price and sales of two brands orange juice by linear regressions
* Used classification tree model to train data