

# Jackie Liu

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## PROFESSIONAL EXPERIENCE

### University of Toronto

#### Research Assistant - Unit Operations Lab

May 2021 - Present

- Lead the development of an interdisciplinary project in collaboration with the department of Chemical Engineering
- Converted their Unit Operations Lab into an interactive VR environment to study the effectiveness of virtual learning
- Held regular meetings with supervisor to update on and demo project progress

#### Teaching Assistant for CSCD01 - Engineering Large Software Systems

Jan 2021 - April 2021

- Prepared and presented course material to a class of 90+ students
- Conducted interviews and provided feedback to various group projects

### JANA Corporation

#### Junior Software Developer

May 2021 - Present

- *Project Lighthouse* (React, Redux, HTML, Tailwind, TypeScript, ArcGIS API)
  - Contributed in Front End development and architecting API calls and data structures
  - Mentored Junior Developers on code quality and problem solving through peer programming
  - Communicated with Product Managers and UI/UX designers to ensure product meets customer requirements

#### Junior Software Developer Intern

May 2019 - Aug 2020

- *Project Lantern* (React, Redux, HTML, SCSS, TypeScript, ArcGIS API)
  - Front End development of a leak surveying tool being licensed for \$1.5+ million annually
  - Created map components with custom map tools and spatial querying feature
  - Developed and documented numerous reusable ReactJS components using StorybookJS
- *Project Spotlight* (ASP.NET MVC, HTML, CSS, JS, MS SQL Server)
  - Full Stack development of a pipeline risk calculation tool
  - Helped create a sales build of the application to be showcased to potential clients

## EDUCATION

### University of Toronto St. George

Class of 2021

#### Honours Bachelor of Science - Specialist in Computer Science, with High Distinction

- 3.86/4.0 GPA in final 2 years | Dean's List Scholar

## RELEVANT SKILLS

### Technical Courses

Algorithm Design and Analysis  
Business of Software  
Computer & Network Security  
Database and Web Applications  
Software Engineering

### Languages

English | Mandarin

### Programming

- Proficient in Object Oriented Programming, with a good understanding of common data structures and algorithms
- Experience using a variety of programming principles and design patterns

### Software Development

- Knowledgeable about the Software Development Life Cycles and the Agile Method
- Effective teamwork, communication, and presentation skills with experience facilitating sprint planings as the scrum master
- Comfortable using Git, as well as creating/reviewing pull requests on large scale projects

## PROJECTS

### Guardian UBA (ReactJS, MongoDB, Python)

A User Behaviour Analytics tool created in partnership with RBC. Features a dynamic dashboard that displays risks categorized by various security threats, and specific user profiles to highlight high risk individuals. Application meets level A of WCAG with over 70% test coverage. The final product was presented to a panel of industry experts from RBC.

### The Day The Sky Fell Game (Unity, C#)

A 3D Adventure Platformer game built in Unity. The game features 3 distinct levels exploring a post-apocalyptic Tokyo and its unique architecture. The game also includes a visual novel component where the player can engage in conversation with various NPCs. The game was showcased and played by various companies in the gaming industry such as Ubisoft Toronto.

### Real-Time Weather Map (HTML, JavaScript, ArcGIS)

An interactive data visualization web application of various weather information such as temperature, humidity, and wind speed, displayed on an interactive map of Canada.