

JACKIE LIU

Jackie.anj.liu@gmail.com | Vancouver, BC

PROFESSIONAL EXPERIENCE

University of British Columbia

Vancouver, BC

Graduate Teaching Assistant – Various Courses

September 2022 – Present

- Created lecture content and facilitated weekly workshops to mentor CS students.

JANA Corporation

Aurora, ON

Junior Software Developer

May 2021 – August 2022

- Project Lighthouse (ReactJS, Redux, TypeScript, HTML, Tailwind, ArcGIS API)
 - Responsible for Front-End development and architecting of API calls and UI components.
 - Supervised Software Developer Co-op students on code quality and best practices.

Software Developer Intern

May 2019 – August 2020

- Project Lantern (ReactJS, Redux, TypeScript, HTML, SCSS, ArcGIS API)
 - Contributed to the research and development of a leak surveying tool being licensed for \$1.5+ million annually.
- Project Spotlight (ASP.NET MVC, JavaScript, HTML, CSS, MS SQL Server)
 - Provided Full Stack development including a sales build that was showcased to potential clients.

University of Toronto

Toronto, ON

Research Software Engineer (Part-time)

May 2021 – August 2022

- Lead the development of a research project in collaboration with the department of Chemical Engineering.
 - Converted the department's Unit Operations Lab into an immersive VR environment by porting exact models of various lab equipment into Unity with added interactivity.
 - Programmed expected responses from the various systems based on user action.

Teaching Assistant – CSCD01: Engineering Large Software Systems

Jan 2021 – April 2021

- Prepared and presented course material on various software engineering topics to a class of 90+ students.
 - Conducted interviews and provided feedback to development teams working on their term projects.

EDUCATION

University of British Columbia

Class of 2024

M.Sc., Computer Science

Vancouver, BC

- Research in Human-AI Interaction
- Member of the Design for People cluster

University of Toronto

Class of 2021

B.Sc., Computer Science

Toronto, ON

- Graduated with High Distinction
- Volunteer Note taker for the Accessibility Office

PROJECTS

Guardian UBA (ReactJS, HTML, CSS, MongoDB, Python)

A User Behavior Analytics tool created in partnership with RBC. Utilizes the Los Alamos dataset to conduct heuristics-based anomaly detection against insider threats. Features a dynamic dashboard that displays risk categories by various security threats. Application meets level A of WCAG with over 70% test coverage.

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

A 3D Adventure Platformer game built with Unity featuring 3 distinct levels, exploring a post-apocalyptic Tokyo and its unique architecture. The game has a visual novel component where the player can engage in conversation with various NPCs. The game was selected as 1 of 9 playable demos in the XP Game Developer Summit.

Real Time Weather Map (JavaScript, HTML, ArcGIS API)

An interactive map of Canada with data visualization of temperature, humidity, and wind speed. Users have the ability to click on individual data points on the map and see detailed tabular data on the weather in that area. The data is provided by Environment Canada and updated hourly.

SKILLS & INTERESTS

Skills: Object-oriented programming; data structure & algorithms; scrum facilitation; Git processes.