

# Yun Ji How

Computer Science Graduate / Software Developer



[Portfolio](#)



[GitHub Profile](#)



[LinkedIn](#)



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## EDUCATION

### University of Manitoba

September 2018 - June 2023

Bachelor of Science - Major, Computer Science

## SKILLS

Programming & Markup Languages	Javascript/Typescript, Java, C, C++, C#, Python, HTML, CSS, Markdown, YAML, XML, JSON
Libraries/Frameworks	React, Next.js, Node.js, Express, Flask, REST, TailwindCSS, MUI, ASP.NET, Blazor, OpenGL, PHP
Databases / DBMS	SQL, MySQL, NoSQL, SQLite, MongoDB, Mongoose, Microsoft SQL Server Management System
DevOps Tools	GitLab, GitHub Actions, Docker, Kubernetes, OpenShifts, Azure DevOps
Testing Methodologies & Tools	JUnit, PyUnit, Jest, White Box Testing, Black Box Testing, Unit Testing, Integration Testing, System Testing
Development Methodologies	SDLC, Agile, Scrum, OOP, SOLID, MVC, TDD/BDD, CI/CD
Tools / IDE / Platforms	VS/VS Code, Jupyter, Heroku, Vercel, Postman, WordPress
Command-Line Interfaces (CLI)	Git Bash, PowerShell, Unix/Linux, Shell Scripting
Searching & Sort Algorithms	Binary Search, DFS, BFS, Merge Sort, Quick Sort, Heap Sort, A*
Data Structure	Linked List, Binary Tree, BST, Stack, Queue, Graphs, Hash Table
Software Applications	Microsoft Office Suite, Google Workspace, Figma

## PROJECTS

### [Sky Cast Weather App](#) | [Web Link](#) | MERN, REST APIs, CSS, NoSQL, Git, Heroku

- Developed a **mobile-responsive** app with CSS media queries for an enhanced visual web experience.
- Integrated Google Place API for **location-based autocomplete**, enhancing user search experience.
- Utilized MongoDB for data storage and ensured seamless frontend-backend integration.

### [Little Lemon Restaurant App](#) | [Web Link](#) | UX/UI, Material UI, Formik, React, Figma

- Transitioned from **wireframes** to high-fidelity prototypes and conducted user evaluations to refine the final design.
- Designed a **mobile-responsive** interface with Material UI for improved user experience.
- Incorporated Formik for efficient and reliable **client-side form validation** for table reservations.

### [Sentiment Analysis on Yelp Reviews](#) | Data Mining, Jupyter Notebook, Pandas

- Analyzed and curated data, deriving insights about the most-reviewed cities.
- Utilized the **TF-IDF** approach to enhance sentiment analysis results.
- Applied **K-Means clustering**, recommending restaurants with similar profiles to users.

### [Basic Ray Tracing Technique Implementation](#) | OpenGL, C++, Visual Studio

- Implemented bounding volume hierarchies (**BVH**) to improve rendering speed.
- Used **Schlick's approximation** and shading models for varied visual scene results.
- Applied **super-sampling anti-aliasing** for improved visual quality.

## REST API Documentation

| Technical Writing, REST APIs, Markdown

- Collaborated with a team of 4 to develop comprehensive **REST API documentation**.
- Provide detailed descriptions for various **API endpoints and parameters**.
- Provided clear **sample requests and responses** to illustrate endpoint interactions.

## CERTIFICATIONS

<a href="#">Meta Front-End Developer Specialization</a>	Meta	October 2023
<a href="#">DevOps, Cloud, and Agile Foundations</a>	IBM	October 2023
<a href="#">Introduction to Containers w/ Docker, Kubernetes &amp; OpenShift</a>	IBM	October 2023
<a href="#">Application Development using Microservices and Serverless</a>	IBM	November 2023
<a href="#">Introduction to Test and Behavior Driven Development</a>	IBM	November 2023
<a href="#">Version Control with Git</a>	Meta	October 2022
<a href="#">Introduction to Databases for Back-End Development</a>	Meta	November 2022
<a href="#">Hands-on Introduction to Linux Commands and Shell Scripting</a>	IBM	December 2023
<a href="#">Developing AI Applications with Python and Flask</a>	IBM	November 2023
<a href="#">Principles of UX/UI Design</a>	Meta	September 2023
Continuous Integration and Continuous Delivery (CI/CD)	IBM	In Progress
IBM DevOps and Software Engineering	IBM	In Progress

## UNIVERSITY COURSES

[COMP3350] Software Engineering 1	Winter 2022
[COMP3040] Technical Communication in Computer Science	Fall 2022
[COMP4380] Databases Implementation	Winter 2022
[COMP3380] Databases Concepts and Usage	Fall 2020
[COMP3430] Operating Systems	Summer 2021
[COMP2150] Object Orientation	Winter 2021
[COMP4710] Introduction to Data Mining	Fall 2022
[COMP4490] Computer Graphics 2	Winter 2023
[COMP4620] Professional Practice in Computer Science	Winter 2023

## EXPERIENCE

<b>Store Associate</b> (Part-time)	Winnipeg, Manitoba, Canada
<a href="#">Dollarama</a>	November 2023 - Present

- **Merchandising Product:** Efficiently stock and organize shelves, maintaining an appealing store layout to optimize customer shopping experience.
- **Transaction Handling:** Perform accurate transactions, and manage opening and closing of the cash register.
- **Customer Service:** Assist customers, addressing inquiries and ensuring satisfaction.

<b>Casino Dealer</b> (Temporary Part-time)	Genting Highlands, Pahang, Malaysia
<a href="#">Genting Group</a>	December 2017 - March 2018

- **Card Handling:** Consistently dealt cards with speed and accuracy, enhancing the player experience and maintaining game flow.
- **Transaction Handling:** Managed bet calculations and chip transactions, ensuring accurate payouts and collection.
- **Equipment Operation:** Operated game-specific equipment, ensuring all games were conducted professionally and efficiently.