Yun Ji How
Computer Science Graduate / Software Developer

💼 Portfolio | 🐙 GitHub Profile | in 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
Libraries/Frameworks	React, Next.js, Node.js, Express, REST, TailwindCSS, MUI, ASP.NET, Blazor, OpenGL
Databases / DBMS	SQL, NoSQL, MySQL, SQLite, MongoDB, Mongoose SQL Server Management System
DevOps Tools	GitLab, GitHub Actions, Docker, Kubernetes, OpenShifts, Azure DevOps
Development Methodologies	SDLC, Agile, Scrum, OOP, SOLID, MVC, TDD/BDD, CI/CD
Tools / IDE / Platforms	Visual Studio, VS Code, Jupyter, Heroku, Vercel, Postman
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.

Hydrological Data Analysis | Data Analysis, Jupyter Notebook, Arima
- Perform hydrological data analysis for Cedar Lake near Oleson Point, Manitoba.
- Analyzed hydrological data using **Time Series Analysis** to identify patterns.
- Utilized **scatter plots** to examine relationships between key variables like water level and precipitation.
- Forecasted hydrological conditions using **ARIMA models** for variables such as water level and humidity.

[Next.js Multi-Step Form](#) | [Web Link](#) | Next.js, Node.js, TailwindCSS, TypeScript

• Crafted a **mobile-responsive** form using **Next.js and TailwindCSS** for optimal user experience.
• Implemented **input validation** to guarantee completion of essential fields.
• Built a Node.js server to persist form submissions in MongoDB.

[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.

[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.

CERTIFICATIONS

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

EXPERIENCE

Store Associate (Part-time)   Winnipeg, Manitoba, Canada
[Dollarama](#)   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.

Casino Dealer (Temporary Part-time)   Genting Highlands, Pahang, Malaysia
[Genting Group](#)   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.