

Heather Yue Wang

North York, Ontario M2J 0C8 | ywang599@my.centennialcollege.ca | (873) 353-5310

PROFILE:

A results-oriented **Junior Systems Developer**, with an academic background in software engineering and information systems, demonstrating a strong technical acumen, research abilities, and critical thinking skills. Proficient in areas of object-oriented programming, software systems design, and database management systems (DBMS).

SKILLS:

- Tech stack: C#, Java, .NET, JavaScript, HTML, CSS, Oracle, MS-SQL Server, MongoDB
- Tools: Tableau, Advanced Excel, Git, MS Office, Visual Studio Code

EDUCATION:

Software Engineering Technology (Co-op) Advanced Diploma May 2023 - Present
Centennial College - School of Engineering, Toronto, ON, Canada *GPA: 4.3/4.5 (A)*

Focus Areas: Object-oriented Programming | Database Concepts (SQL & NoSQL) | System Design | Java Programming

Master of Systems Science Graduated Apr 2021
University of Ottawa - School of Engineering, Ottawa, ON, Canada *GPA: 3.68/4.00 (A)*

Focus Areas: Systems Optimization | Network Optimization | System Engineering: Control Systems Design

Bachelor of Science in Business - Accounting & Information System Graduated May 2019
Boston College - Carroll School of Management, Chestnut Hill, MA, USA *GPA: 3.73/4.00 (A)*

RELEVANT EXPERIENCE:

SQL Developer Intern Jun - Aug 2022
Modern Maternity Hospital Co. Ltd., Guangdong, China

- **Reviewed and validated 1,500+ medical records** including patients' basic information, diagnoses, prescriptions, etc. to ensure data integrity before importing them into the database
- Collaborated with team to **revise and rewrite over 50 stored procedures and triggers** to automate data processing tasks, improving the overall system execution speed and maintainability
- Helped to enhance senior management's decision-making capabilities by **creating 50+ complex SQL queries** to support data analysis
- Categorized and analyzed patient satisfaction and **visualized the data** using **Excel**, identified the key aspects of quality improvement. Increased overall patient satisfaction by **10%**
- **Created functional dashboards** using **Tableau** and reduced manual reporting efforts by **30%**

Research Analyst Jan - Mar 2020
Global Advantage Consulting Group Inc., Ottawa, Canada

- Collaborated with teams to define research objectives, and conducted bilingual research on the S&T Innovation Ecosystem project
- Conducted comprehensive **data analysis** on the balance sheets of **15+** government departments, resulting in the identification of **5+** key trends and insights into S&T areas for possible Sino-Canadian collaboration
- Utilized **SQL** and data visualization tools including **Microsoft Visio and Excel** to extract and present data findings effectively, reducing data processing time by **20%**
- Delivered research findings to 3 stakeholders, receiving **100%** positive feedback on the depth and relevance of the business insights

PROJECTS:

Banking Application | C#, Visual Studio, Window Forms July 2023

- Developed a multi-account bank application that allowed users to perform essential banking operations including login, logout, deposits, withdrawals, and viewing bank statement
- Utilized **object-oriented programming** principles to design and integrate three account types with their unique features and functionalities. Reduced code redundancy and improved code reusability
- Employed **exception handling** techniques to ensure a secure login system with user and password authentication

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- Enabled **accurate balance updates** for each account type following successful deposit and withdrawal transactions
- **Conducted testing** to identify and resolve any software bugs to ensure an error-free user experience

Clinical System Design and Development | *Visual Paradigm, Project Management*

May-Aug 2023

- Implemented **Agile methodology** to manage project planning and task allocation, ensuring on-time assignment delivery, continuous feedback, and better alignment to project needs
- Constructed **UML structure diagrams** including class diagrams and deployment diagrams, and **UML behavior diagrams** including use case diagrams, state machine diagrams and sequence diagrams
- Orchestrated the **software design architecture**, emphasizing modularization and adherence to the **MVC design pattern**, resulting in a scalable and maintainable system
- **Led a team of 8** and collaborated with team members to ensure effective communication and alignment with project goals, ensuring everyone contributed to project success