Haonan Zhang

Computer Science Major | Toronto, ON | raymondzhn@outlook.com | 613-252-2649

PERSONAL HIGHLIGHTS

- Professional computer programming experience in the area of quality assurance, system testing, and software development
- **Academic Achievements**: Earned the **Dean's Honour List** for academic excellence (**CGPA 9.82/12**)
- **2 years' Java programming** experience in performing software design and development, and system networking
- **2 years'** hands-on **SQL querying** experience in performing relational database management and development
- Practical experience in web design and development tools including **Java (Spring boot), JavaScript (React), CSS, HTML** etc.
- Technical expertise in Python programming (Numpy, Pandas); Fundamental knowledge in **JSP, Redis, Docker**
- Received the certificate of completion on technical training "Java Developer" course from Udemy.
- In-depth software development knowledge in Recursion, Inheritance, Data Structures (lists, trees), Big-O Complexity Analysis
- Extensive algorithm knowledge: Asymptotic Analysis, Dynamic Programming, Greedy Algorithms, Graph Algorithms
- Willingness to learn & fast learner; A self-motivated, energetic, result-driven and hard-working team contributor

EDUCATION

Master of System Science, University of Ottawa, Ottawa, ON   **Graduation Date: December 2022**
- **Interested Courses:** System Engineering (**A**), System Optimization and Management (**A**), Enterprise Architecture (**A**)
- **Career Objectives:** Software Development, Quality Assurance, Database Management, Automation, Testing

Hon. Bachelor of Science, Major in *Computer Science,* Carleton University, Ottawa, ON   **Graduation Date: June 2021**
- **Relevant Courses:** Software Engineering, Computer Networks, Database Management,
- **Skills Set**: Communication, Interpersonal, Problem Solving, Multi-tasking, Teamwork, Time management, Attention to Details

EMPLOYMENT EXPERIENCE

Software Engineer (Remote), Community Dreams Foundation, Toronto, ON   **May 2023 - Present**
- Collaborated with a team of 3 talents to design, develop, test, and deploy software solutions that support our nonprofit initiatives
- Planned the effective structure to construct reliable connection between front-end libraries and back-end database (SQL Server)
- Identified the useState async issue, developed the action plans, and implemented useEffect to resolve the technical problem.
- Demonstrated excellent analytical skills by extracting, analyzing and summarizing development and service issues to partners
- Illustrated an excellent programming behavior to design and write clear, concise, and straight-forward codes
- Managed and executed multiple software projects to ensure they aligned with organizational goals and objectives
- Determined operational feasibility by evaluating analysis, problem definition, solution optimization and proposed solutions
- Demonstrated effective communication skills by interpreting and presenting testing logic to non-technical colleagues
- Successfully detected and troubleshoot the error programming codes or strings to identify and forecast the potential influence

Software Developer Intern, Kanlan Technology   **May - August 2022**
- Organized the application hierarchy with CRC card and UML diagrams to determine the structure of project
- Successfully detected and examined the error **Java** codes or strings to identify and forecast the potential influence
- Utilized and integrated latest software with industry applications to perform manual and automated analysis and validation
- Offered the strongest support in developing new test metrics and techniques to maximize testing efficiency and scalability
- Utilized automation test cases with Selenium using **Java**, successfully maximized the daily work efficiency by saving 30 mins
- Implemented Agile model to participate in different stages of SDLC including planning, analyzing, testing, etc.
- Presented findings with insights and actionable recommendations to assist management team in decision-making process

COMPUTER SCIENCE PROJECT EXPERIENCE

Mini Banking Application, *Software Design* Project using **Java Programming**, Toronto, ON   **February - April 2022**
- Led a team of 3 people to design a banking application which search an account under different methods using **Java** with Eclipse
- Organized the application hierarchy with CRC card and UML diagrams to determine the structure of project
- Tested project plan with various scenario to run the simulation analysis, debugged and minimized the unexpected effects

Credit Risk Database, **SQL Database Management Project**, Toronto, ON   **January – March 2021**
- Consolidated data by merging and jointing tables using **SQL queries**, and validated the defaults and write-offs for collaterals
- Wrote **SQL scripts** such as indexes and triggers, analyzed trending reports and drew extrapolations based on findings
- Extracted target data from **SQL database** to Excel and conducted in-depth comparable analysis to analyze required data set