Cynthia Hu

647-970-0978 | shuixin.hu@mail.utoronto.ca | Toronto, ON M5T2P1

SUMMARY OF QUALIFICATIONS

- Independent and self-motivated individual who is passionate about **software development**, **web application digital** and **analog electronics , computer programming** and **computer architecture**
- 3 years of practical experience in **programming**, **electronic devices** and **circuits design**
- 1 year of **project management experience in academic projects**
- Demonstrated agile aspect of software development life cycle through several academic projects
- Strong mathematical aptitude, value accuracy and attention to detail.
- Excellent communication, problem-solving, organizational and time management skills.
- Proficiency in programming languages such as **C/C++**, **Python**, **SQL**, **Java, Assembly Language**, **MATLAB** and **Verilog**.
- Proficiency in software frameworks including **Spring Framework** and **IBatis/MyBatis**
- Proficiency in **Excel**, **Microsoft Word**, **PowerPoint** and other **MS office tools**.
- Self-learning web development using **HTML5**, **CSS** and **JavaScript**
- Self-learning **C#** and **Unity game engine**

EDUCATION

University Of Toronto, Faculty of Applied Science and Engineering **Toronto, Ontario**
Electrical and Computer Engineering *Sept 2019 - May 2024*

- Completed Coursework: Operating System, Algorithms and Data Structures, Computer Organization

PROJECTS

Interactive tourist map of Toronto-Mapaway *January 2021- April 2021*
Technology used: C++, EasyGL
Link to project Details: https://drive.google.com/drive/u/0/folders/1SUDbzeIEpldrQZeYSHV5ZEMtODS-0Q-9

- Created an interface that helps travellers plan out their journey in the most efficient way by offering the shortest path from one destination to another with detailed travelling instructions.
- Developed a search function which tolerates spelling errors to support foreign travellers, increasing their efficiency in finding destinations
- Devised an algorithm that solved the traveller salesman problem.

Online Distributed System - Cloud Database *January 2023 - April 2023*
Technology used: Java, GRPC, Protocol Buffers
Link to project Details: https://drive.google.com/drive/folders/10pORKT_4ZrIwHpk6v8tAb-26N3lhDO6d

- Designed and implemented a distributed and replicated storage service that store key-value pairs
- Accomplished realization of relational database and offers support for SQL query operations

EXPERIENCE

Ministry of Education - CSC Cluster **Toronto, Ontario**
Application Programmer Analyst (Co-op) *May 2022 - August 2023*

- Worked as a software developer on OSAP-related projects, focusing on full-stack development of web applications, as well as maintenance and defect resolution after production launch, serving millions of public users in Ontario
- Assisted with five major technical upgrades and enhancements for microservice projects, which resulted in the successful delivery of OSAP web applications to production
- Developed utility software programs that were subsequently adopted widely by the team, leading to a remarkable 50 % increase in work efficiency