Marco Liu

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SUMMARY

- Dynamic, passionate and goal-oriented developer with 2+ years of experience
- Effective time-management and teamwork skills built through the development of multiple projects
- **Key Languages and Tools:** Python, C++, Java, C, MySQL, HTML, CSS, JavaScript, Git, Unix

EMPLOYMENT

Bell Canada, *Software Developer (ANR Team)*   May 2020 – August 2020

- Developed and maintained **Python** scripts that automate actions against alarms on the Bell Network
- Created a **Python** library that captures files and transfers them to vendors using SCP and FTP
- Improved the widget status webpage to accurately display execution statistics by optimizing **MySQL** queries
- Performed bi-weekly demos to other Bell teams, showcasing sprint progression and widget enhancements

FutureTel, *Technician Assistant*   August 2018 – September 2018

- Expedited a smartphone repair process by reading and writing IMEIs, conducting IP68 tests, and managing force touch calibrations simultaneously, resulting in an increase in production
- Analyzed products for defects through thorough testing of hardware and software components
- Communicated with the QC department effectively to resolve issues and maintain a high standard of quality

PROJECTS

SE101 Design Project, *Automated Maze-Solving Car*

- Devised and constructed an Arduino-based robotic car that determines the shortest path through a maze
- Implemented a maze solving algorithm in **C++** that records and simplifies movements from an initial run, producing an optimized set of directions that results in the most efficient maze traversal

Space Defender, *Speed-Typing Game*

- Led a team of 5 through the planning and development of a speed-typing game in **Java**
- Manipulated external text files to randomly organize and display words on the screen
- Incorporated object collision, sound effects, and animations to simulate a space fight, improving user experience

Define: FASHION, *Website*

- Designed and developed a responsive fan page website for Korean artist G-Dragon
- Learned web development and front-end technologies including **HTML, CSS** and **JavaScript**
- Enhanced user experience by implementing the parallax effect and different animations on mouse hover

VOLUNTEERING

City of Markham, *Summer Camp Volunteer*   August 2017 – September 2017

- Guided 25+ children through the development of self-driving cars, resulting in successful showcases to parents
- Led a 3-D modelling and printing activity by helping children navigate through the Tinkercad software

EDUCATION

University of Waterloo, *Bachelor of Software Engineering*   September 2019 – Expected 2024

INTERESTS

- Fashion Design, Photography, Swimming, Travel