

Technical SKILLS

Languages: Python, Java, JavaScript, HTML5, PHP, CSS, SQL, C++

Tools: AWS, Ubuntu, MySQL, GitHub, Google Analytics, Power BI, Jupyter Notebook

EDUCATION

B.A.Sc. Computer Science (Economics Minor)

Graduated June 2019

McMaster University, Hamilton, ON

- Completed a five-year co-op program with a GPA of 3.8/4.0
- Awarded with a scholarship from the Createch School for outstanding academic performance

RELEVANT PROJECTS

Able Alley (<https://github.com/ShiyuL/able>)

Jan 2019 - April 2019

- In a team of four, utilized concepts of gamification to build a web based bowling game using the **MVC** architecture to separate the **JavaScript** front end, the back end server, and a smartphone as a controller.

Smart Parking (<https://luos.comp4ww3.com/>)

Sept 2018 - Nov 2018

- Used **HTML5**, **JavaScript**, **CSS**, and **PHP** to build a dynamic web parking application hosted on **Amazon EC2**
- Users can register, log in, search for parking spots, and submit parking spots/parking reviews.

Comment Analyzer

Apr 2018

- In a team of three, used **Python** and **machine learning** libraries to train machine learning models from over 10 000 comments for sentiment analysis. Won second place out of thirteen teams at McAfee Hackathon.

WORK EXPERIENCES

Programming Outreach Instructor (McMaster University, Hamilton, ON)

Apr 2016 – April 2019

- Taught introductory computer science concepts to over **600** elementary and middle school students

Software Developer Intern (McAfee (formally Intel Security), Waterloo, ON)

May 2017 – Aug 2018

- Used **Python** to develop and maintain high-quality code in the **Django** web framework to shorten the time spent on automation testing, automation reporting, and analyzing automation results
- Developed online, auto-refreshing dashboards using **Power BI** to report automation trends to management
- Managed and maintained internal **Jenkins** server for continuous integration and testing
- Won **third place** out of 13 teams in the company hackathon by building a comment analysis tool using machine learning models Random Forest, Decision Tree, and Linear SVC in a **Python** library

Software Tester Summer Intern (OACCAC, Toronto, ON)

May – Aug 2016

- Used recognized industry protocols and tools to test the OACCAC website to identify and analyze **300** defects

PROFESSIONAL DEVELOPMENT EXPERIENCES

Hackathon Co-Director (McMaster University, Hamilton, ON)

Sept 2016 – Apr 2017

- Planned, managed, and executed McMaster's hackathon for change with an attendance of **500** which helped build a stronger student technology community on campus

Microsoft Student Partners (McMaster University, Hamilton, ON)

Sept 2016 – Apr 2017

- Collaborated with other Microsoft Student Partners to plan and run technological events on campus with the resources and expertise support from Microsoft