

SAYON KATHIRGAMANATHAN

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SUMMARY OF SKILLS

- **Languages:** Python, C/C++, C#, Java, JavaScript, HTML, CSS, PHP, SQL
- **Tools and Frameworks:** Bootstrap, jQuery, REACT, AWS, wxPython, MySQL, Selenium, Git, Jira



EDUCATION

Bachelor of Engineering, Electrical Engineering (CO-OP) | McMaster University

Class of 2021 | Relevant Courses GPA: 3.7

- **Relevant Courses:** Engineering Computation, Principles of Programming, Data Structures, Computer/Advanced Communication Networks



WORK EXPERIENCE

Software Developer | Infosys Ltd.

MARCH 2022 – PRESENT

- Trained in the roles of Software Developer in Test (**Selenium**, SOAPUI, agile software development methodology, CICD) while working with 100+ other developers as part of the Infosys Validation Solution.
- Performed functional testing using **Java** and **Selenium** to validate 20+ modules such as login, adding/editing payee information on Infosys's Essence Bank application.
- Produced a data driven testing solution in automating tasks such as employee details generation (salary, asset date), validation and modification of user input received from employee info data which reduced labour time by over 50%.

Software Engineer Intern | BLINQ Networks

MAY 2020 – AUGUST 2020

- Developed a desktop interface using **wxPython** which reduced the time taken to analyze the production data of radio frequency modules by over 80% while also displaying graphs and creating a CSV file of the compiled data
- Constructed an interactive settings menu which allows engineers to seamlessly start testing for newly added modules by adjusting 15+ options for preferences such as data input, analysis, and output
- Prepared and presented proposals to a team of 10 engineers consisting of various disciplines which resulted in an over 90% increase in the detection speed of production issues



PROJECTS

Board Game Simulator | Python Application

- Conceptualized and built a multiplayer board game simulator for 5+ popular games by building an interface, using front-end library **wxPython**, which provides a fluid user experience
- Implemented back-end programming concepts such as data structures, graph theory, and game theory in **Python** utilizing a model view controller design pattern to monitor 60+ board game rules and alerts

Medical Clinic Website | Web Application

- Created a responsive landing page, based on the client's specifications, by using client-side programming technologies such as **Bootstrap**, **jQuery**, **JavaScript**, **HTML**, and **CSS** to achieve the desired aesthetic
- Assembled a **MySQL** database which stores booking data for 300+ users, as well as an email delivery system using **PHP**
- Programmed an appointment booking form which executes server-side functions when submitted, such as inputting 20+ data points into the database and sending a post request to access the **PHP** API



EXTRACURRICULAR ACTIVITIES

Electrical (Software) Team Member | McMaster Solar Car Project

SEPTEMBER 2017 – APRIL 2019

- Designed and manufactured electrical circuits used to activate 12 solar cells to power a project car
- Collaborated with a team of 4 engineers to put together a robust monitoring and display system using **Arduino**