# Rafay Leghari

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## EDUCATION

**Bachelor of Engineering, Software Engineering & Management Co-op**          **Fall 2015 – Fall 2020**

- **3.8 GPA**, Honours List, Awarded May Court Club of Oakville Scholarship & Golden Key Honor

- Placed 5th in PhaseOne's Coding Competition at McMaster University

## EXPERIENCE

**Software Developer Co-op**                    **Vena Solutions**                    **Summer 2018**

- Front end development on the Office 365 team, developing and deploying a **React** application as an **Excel Online add-in** enabling use of Vena's product both within Excel Online and Excel for Mac.

- Implemented key features such as **data validation**, **file refresh**, and **multidimensional query generation** to extract slices of data from OLAP cubes used by all Excel online customers.

- Developed the UI for an ad hoc reporting application that allows for pagination and lazy loading of over **200,000** nodes in a tree structure using **JavaScript** and **React.**

**Associate Developer In Test, Intern**                    **SAP**                    **Fall 2017**

- Developed over **40** automated test suites in **Python**, extending the **Selenium2Library** to handle popup windows, loading masks, and frame selections, decreasing automation suite run time by **30%.**

- Implemented a **Groovy** script using the **JIRA API** in **Jenkins** to automate the process of updating tickets.

**Software Engineer Intern**                    **VanWyn**                    **Summer 2017**

- Developed a **desktop application** using **Java** and **Arduinos** to enable the wireless operation and flight testing of a flyable balloon drone.

- Developed and tested the flight logic of balloon drone, using Arduinos (**C++)**, RF transceivers, and the **Pozyx** system, enabling **automatic** and **manual** flight modes.

**Research Engineer**                    **McMaster University**                    **Spring 2018**

- Developed the UI and dashboard for a single page web application using **Angular** and **JavaScript**

## PROJECTS

- **ScanShop:** An android application that scans an item's barcode and outputs a list of online retailers that sell the item, ordered by ascending price. Implemented using **Java**, **Android Studio**, and **AWS**.

- **Six Degrees of Anyone:** An **android** [application](#) that can find and display the path between any two actors using **breadth first search**. Retrieves actor images by querying the **tmdb API**.

- **Color Switch:** Remade the mobile game "[Color Switch](#)" on the web using **JavaScript** with the **p5** library**.**

## TECHNICAL SKILLS

**Programming Languages**                    **Frameworks / Others**

Java, Python, C++, JavaScript                    React, Redux, HTML5, CSS3, jQuery, Node.js, Android Studio, Git, Jenkins, JIRA, Selenium, MySQL, MongoDB