

# Rudra Sharma

Backend Developer Intern

## About me

Hi, my name is Rudra Sharma. I'm a 4th year software engineering student from Toronto, ON currently working as a Backend Developer at IBM. I am interested in software development alongside data analysis. I have experience working with Java, PHP, VB.NET, and Python and currently exploring javascript frameworks.

Some of my projects include making a web-based lyrics api to fetch lyrics for songs, making a schedule manager android app to manage part time job schedules, as well as a report card comment generator that allows teachers to generate report card comments for students in their class based on their grades.

## Skills



## Contact

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## Experience

### Backend Developer Intern

IBM Canada

May 2019 - Present

- Worked on a team utilizing the **Agile** methodology to release **Db2** to customers
- Developed a Quality Assurance Dashboard using **Cognos Analytics** as the frontend and Db2 databases as the backend.
- Created data sync scripts in **Python** using **Github API** as the data source and syncing with Db2 database using **Db2 CLI**.
- Responsible for releasing Db2 Early Access Program every month alongside managing customer issues.
- Conducted NLV(National Language Verification) cycles for 2 major releases of Db2



## Education

### Honours Bachelor of Engineering, Specializing in Software Engineering

Lassonde School of Engineering, York University, Toronto, ON

Expected to graduate early 2022



## Projects

### Lyrics API

**Created with:** Vue, NodeJS, MongoDB, IBM Carbon Design System, Swagger, Python

- Lyrics API is as a **dockerized** web application that provides lyrics to songs in the form of **API** requests.
- Frontend of the web application is made in **Vue** using the **Carbon Design System** providing users with API documentation alongside API key management service.
- The backend service is maintained using **ExpressJS** and consists entirely of api calls and returned requests.
- **Python** scripts in the backend also act to **scrape** the lyrics for songs from Genius.com using the **BeautifulSoup** library and then adding the data to the **MongoDB** database which is then accessible by the end-users through api calls.

### Schedule Manager

**Created with:** Android Studio, Java, Sqlite

- Schedule Manager is an android app created in **Android Studio** using **Java** that helps track working schedule for part time workers and provides basic stats on a week-to-week and monthly basis.
- Additionally, it provides functionality allowing users to calculate paycheck earnings accounting for tax amongst other features.
- Leverages local **sqlite database** to store all user information.

### Report Card Comment Generator

**Created with:** VB.NET, NHunspell Library

- Report Card Comment Generator is a desktop app made in **VB.NET** for teachers to generate report card comments for students with ease.
- The app was also catered towards a report card logging service called **HomeLogic** and worked to export the comments directly to the Homelogic service once they were generated.
- Libraries such as **NHunspell** were used to aid the generation of unique comments.