

## Raj Manivannan

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[github.com/rajocular](https://github.com/rajocular)

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## PROFILE OF SKILLS

- **Languages:** Java, Python, C, C++, JavaScript, Shell Script
- **Frameworks:** Django, Bootstrap, React, Selenium
- **Packages:** Jsoup, BeautifulSoup
- **Version Control System:** Git
- **Database Systems:** Oracle, SQL Server, SQLite
- **Markup Languages:** HTML
- **Operating Systems:** Windows, Linux
- **Cloud Platform:** IBM Bluemix

## EDUCATION

**Masters in Applied Computing**

University of Windsor, Windsor, ON

Sep 2017 - Present

**Bachelor of Engineering in Computer Science Engineering**

St. Joseph's College of Engineering, Chennai, Tamil Nadu, India

Aug 2013- May 2017

## ACADEMIC PROJECTS

**Online Store Website**

**Technologies used:** Python, SQLite

**Frameworks Implemented:** Django, React, Bootstrap

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May 2018 – Jun 2018

- Designed the front end using **Bootstrap** and the back end using **Python and SQLite**.
- Devised six different Django models for key factors such as Student, Parent, Attendance, Class, Progress and Payment.
- Developed an Interface for users to register, edit their profile, change/reset their password with the help of Django forms.
- Implemented a Django view coupled with Django sessions to keep track of user login activity.
- Deployed website live on to the Heroku server with Postgres serving the backend.
- Created a simple application version using React which fetches the data from a JSON file to display the product details.

<https://www.github.com/rajocular/store>

<https://storeproject.herokuapp.com>

**Martial Arts Club Database**

Jan 2018 – Apr 2018

**Technologies used: Python, SQLite****Frameworks Implemented: Django, Bootstrap**

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- Designed the front end using **Bootstrap** and the back end using **Python and SQLite**.
- Developed a database with a web interface to support both admin and guests.
- Created an admin interface to serve the admin with permissions to register, view, edit, delete student details as well as other details such as their parent, class, attendance, progress and payment details.
- Devised a guest interface to do the same functions mentioned above but records will get deleted after guest's session ends.

<https://github.com/rajocular/karateclub><https://martialartsclub.herokuapp.com/>**Search Engine on Static HTML files**

Sep 2017 – Dec 2017

**Technologies used: JAVA, HTML****Concepts implemented: Splay tree, Inverted index, Hash table, JSOUP, Edit distance**

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- Developed a simple version of search engine using Java that runs on static HTML files.
- Included JSOUP to translate the given HTML files into .txt files which are then utilized in the search.
- Established Inverted index to find the frequency of every words and are then stored in a hash table with the word being the key and its frequency being its value.
- Implemented Splay tree to rank the web pages.
- Employed edit distance to find related searches if the keyword is misspelled or if it is not found.

<https://www.github.com/rajocular/searchengine>**INDEPENDENT PROJECT****Web Automation**

Dec 2017

**Packages Used: Selenium, BS4(Beautiful Soup)**

Established a Python script which utilizes the packages mentioned above to automate a tedious daily-level activity of data entry.

**CERTIFICATIONS**

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| • Learning Git and GitHub, Lynda.com   | Jun 2018 |
| • Git Essential Training, Lynda.com  | Jun 2018 |
| • Introduction to CISCO Packet Tracer Course, Netacad.com                      | Jun 2018 |
| • IBM Bluemix Essentials   | Nov 2017 |
| • Linux - ACE IT Academy, Chennai, Tamil Nadu, India                           | Mar 2016 |
| • EMC2's Cloud Infrastructure and Services, ICTACT, Chennai, Tamil Nadu, India | Mar 2016 |
| • CISCO Network Design and Implementation, IBNC, Chennai, Tamil Nadu, India    | Mar 2015 |
| • JAVA - Eyeopen Technologies, Chennai, Tamil Nadu, India                      | Feb 2015 |