

# ANISAFTAB SAIYED

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<https://anisaftab.github.io/Portfolio/> · <https://github.com/Anisaftab>

## EDUCATION

### Bachelor of Computer Science (Data Science)

University of Ottawa GPA: 7.86/10.00 Sep 2021 – April 2025(expected)  
**Relevant Coursework:** Data Structures and Algorithms, Introduction to Computing (Python and Java), Introduction to Software Engineering, Linear Algebra, Discrete Math's, Probability & Statistics

### Biotechnology Technician

Loyalist College GPA: 8.50/10.00 Jan 2017-April 2018

## SKILLS

- **Programming Languages:** Python, Java, HTML, CSS, SQLite
- **Technologies:** OOP, Git, JUnit, PyQt5, Open-3D, Auto-Py-To-Exe, Android Studio, Mockito, User testing, Debugging, Agile Development, Multi-threaded programming, Jira

## PROJECTS

### Enroll (Android app for course enrollment)

Java, Android Studio, OOP, SQLite, JUnit, Mockito, GitHub

- Practiced advanced application making using Java and Android Studio by creating a fully functional application.
- Followed full software development life cycle, by planning the functionalities of app and making UML class diagrams, designing the app, implementing functionalities, connecting database, testing using JUnit and Mockito and integration to the functioning model and then maintaining features.
- Practiced creating different user roles like Student, Instructor and Administrator and applied the subsequent roles to database using SQLite.
- Lead a team of 4 students in planning, work distribution, communication, collaboration, problem-solving and meeting project deadlines.

### Privacy browser (Python web browser)

Python, PyQt5, Auto-Pt-To-Exe, Reading Documentation, UI Design, GitHub

- Created a Privacy-oriented Browser using the PyQt5 library which automatically deletes user history and cookies on exit.
- Read PyQt5 documentation to implement cookie deletion functionality in the browser.
- Citing one of the important uses of the browser is to search for flights, added a search flights button which opens topflight aggregators for users.

### Simple calculator (Android calculator)

Java, Android Studio, Object-Oriented Programming (OOP), Java Unit testing

- Practiced the basics of Android studio by creating a Simple Calculator app for Android.
- Practiced creating event-driven systems such as button clicking and how to connect code to various elements of app.
- Created JUnit tests for the application and practiced thinking of product quality and test cases.

### DBScan algorithm (Data visualization of 3D points based on density-based clusters)

Java for Algorithm, OOP, Python for visualization, Open3D

- Read data points from CSV file and then used DBScan algorithm to form clusters based on different epsilon values and then visualize the data using Open3D library in Python.
- Re-wrote the code by using K-D Search Tree as data structure and found search performance is 6 times better than linear search for single points.

## WORK EXPERIENCE

### Production technician

Elanco Animal Health, Charlottetown, PE

Feb 2019-Sep 2021

- Produce vaccines by performing biologics recovery using various filtration and chromatography methods.
- For a company project programmed a chromatography system for a filtration process to automatize a manual process.
- Programming the system automated a 2.5-day staggered manual process to a single continuous 1-day process, thereby **saving the company 1 day on each batch.**
- The system was automatized to monitor all the specs to the point where **only 1 person was required to finish the process instead of 2 and reduced the paperwork by 75%** by making system monitor and print all the necessary parameters.