

ANISAFTAB SAIYED

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<https://anisafstab.github.io/Portfolio/> · <https://github.com/Anisafstab>

EDUCATION

Bachelor of Computer Science (Data Science)

University of Ottawa

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, Databases, Programming Paradigms

Biotechnology Technician

Loyalist College

Dean's List

Jan 2017-April 2018

SKILLS

- **Programming Languages:** Python, Java, HTML, CSS, SQLite, JavaScript
- **Technologies:** Git, JUnit, React, REST API, Android Studio, Jira, Microsoft Office, Open-3D, Microsoft Excel & PowerBI
- **Methodologies:** Object-oriented Programming (OOP), Agile Development, Cloud-deployment, Multi-threaded programming, User testing, Debugging, Design Patterns, Software Development Cycle

PROJECTS

Personal website: <https://anisafstab.github.io/Portfolio/>

Enroll (Android app for course enrollment)

Sep-Dec 2021

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

- Developed an advanced application using **Java and Android Studio** by creating a course booking app for courses.
- Practiced complete **software development life cycle**, by doing requirement gathering, designing, development and coding, testing, and debugging, functionality maintenance and support.
- Created user roles (Student, Instructor, Administrator) and applied them to a database using SQLite.
- **Lead a team of 4 students** in planning, work distribution, communication, collaboration, problem-solving and meeting project deadlines.

Word Association (Web game using React framework and REST API)

Jan 2023

JavaScript, React, CSS, REST API

- Developed a word association game using **React framework** and Word-quiz **REST API** to fetch sets of words.
- Utilized **React Hooks** for state management and functional components and **CSS** for styling.
- Deployed using **Netlify cloud** and read Netlify Environmental variables' documentation to store and access API Keys.

Privacy browser (Python web browser)

June 2022

Python, PyQt5, Auto-Py-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.
- **Incorporated** a 'Search Flights' button, which provides quick access to top flight aggregators.

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

Oct-Dec 2022

Java for Algorithm, Data Structure & A, Python for visualization, Open3D

- Implemented DBScan algorithm by importing data points from a CSV file to form clusters on varying epsilon values and visualize the cluster using Open3D library in Python.
- Utilized a K-D Search Tree as the data structure to optimize code, resulting in a **6-fold improvement in search performance** for individual points compared to linear search.

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.
- Programmed a Chromatography System for a filtration process to automatize a manual process for a company project.
- Streamlined the system, reducing a **2.5-day staggered manual process to a continuous 1-day process**, saving the company a full day on each batch.
- Automatized system requires **only 1 person to finish the process instead of 2** beforehand.
- **Reduced the paperwork by 75%** by making system monitor and print all the necessary parameters.