

ANISAFTAB SAIYED

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EDUCATION

Bachelor of Computer Science (Data Science)

University of Ottawa

Sep 2021 – April 2024

Relevant Coursework: Data Structures and Algorithms (I & II), Operating Systems, Web Development, Databases (I & II), Programming Paradigms, Software Quality Assurance, Software Requirements Analysis, Programming Language Concepts

Diploma in Biotechnology Technician

Loyalist College

Dean's List

Jan 2017-April 2018

SKILLS

- **Programming Languages:** Python, Java, HTML, CSS, JavaScript, PostgreSQL, MySQL, SQLite
- **Technologies:** Git, AWS (EC2, LightSail, RDS), REST APIs, React, Spring Boot, Pandas, NumPy, Sci-kit Learn, Kafka, Android Studio, Apache Tomcat, JUnit

WORK EXPERIENCE

Full Stack Developer

JPlug.io, Ottawa, ON

Dec 2023-Current

- Resolved various issues on AWS EC2, including fixing Gradle dependencies, addressing storage challenges, and resolving connectivity issues.
- Deployed a LightSail server to connect with Test Chargers and Database.
- **Improved query processing** for extracting transactions through **query optimization by up to 50%.**

Production technician

Elanco Animal Health, Charlottetown, PE

Feb 2019-Sep 2021

- Transformed a **2.5-day staggered manual** chromatography process into a **continuous 1-day operation**, saving the company a full day on each batch.
- Streamlined operations to require only **1 person instead of 2** and **reduced the paperwork by 75%.**

PROJECTS

AI Empirical Studies (Comprehensive Exploration and Evaluation of various AI methodologies)

Fall 2023

Pandas, NumPy, Sci-kit Learn, Spacy, Pretty Table, Jupyter Notebook

- Demonstrated proficiency in the complete model development lifecycle, from data preprocessing and model training to hyperparameter tuning and result evaluation.
- **Reduced report size by 30%** through **code refactoring** and **optimizing existing code** to enhance efficiency and streamline the analysis process.

Hybrid Hash-Join for PostgreSQL (Hybrid algorithm for doing hash join)

Fall 2023

- Modified PostgreSQL's code to implement a double hash join algorithm, resulting in a **50% improvement in query processing speed.**

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

Oct-Dec 2022

Java for Algorithm, Python for visualization, Open3D

- 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.

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

Jan-Feb 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.

Enroll (Android app for course enrollment)

Sep-Dec 2021

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

- Completed software development life cycle, by doing requirements gathering, designing, development, testing, and debugging and functionality maintenance.
- **Lead a team of 4 students** in planning, work distribution, communication, collaboration, problem-solving and meeting project deadlines.
- Accomplished a **30% reduction in software bugs** and issues throughout the development process.