

EDUCATION

- **Concordia University** Canada
Master of Science in Applied Computer Science *Sep. 2021 – June. 2023*
- **Concordia University** Canada
Graduate Diploma in Computer Science *Sep. 2020 – Aug. 2021*
- **Dr. A. P. J. Abdul Kalam Technical University** India
Bachelor of Technology in Electronics and Communication Engineering *Aug. 2014 – June. 2018*

EXPERIENCE

- **Onespan**
Software Developer Intern *May 2023 - Present*
 - **Object-Oriented Programming and Framework Updates:** Utilized Object-Oriented Programming (OOP) principles in Java and the Spring Boot framework. Updated and optimized classes at the business layer and methods to access the Data Access Layer, improving system performance by 25%.
 - **Validation Controls and Customization:** Implemented JavaScript-based validation controls to ensure data integrity and enhance user experience. Developed applications using WCF and WPF, incorporating custom validation controls, resulting in a decrease in data input errors.
 - **Collaborative Agile Environment:** Collaborated in a team-based, Agile environment to achieve objectives within set deadlines. Demonstrated effectiveness and efficiency in fast-paced, collaborative settings, resulting in an increase in team productivity
- **Cerence**
Software Developer Intern *Jan 2023 - April 2023*
 - **Development of RESTful API-based microservices:** Contributed to developing microservices using Java and Spring MVC4, resulting in improved system scalability and resulted in an immersive reduction in response time.
 - **Database Management:** Managed database interaction using Hibernate4 with Oracle and SQL Server databases, optimizing query performance by 15% and enhancing data retrieval efficiency.
 - **Database Migration:** Led the migration of Apache Solr to NoSQL Elasticsearch using Python and MongoDB, improving search capabilities and reducing query execution time by 60%.
 - **Build and Dependency Management:** Unified project dependencies and build processes using Maven and Gradle, reducing build time and ensuring consistent builds
- **HCLTech**
Senior Analyst *July 2018 - Nov 2020*
 - **Workflow Automation and Machine Learning:** Developed runbooks using Python programming and machine learning models to automate workflow, ensuring on-time delivery of all solutions. Increased efficiency by 30% through streamlined automation processes.
 - **Backend and Frontend Development:** Implemented MicroServices using Spring MVC4 backend and ReactJS frontend, enhancing web application functionality. Leveraged MySQL and SQL Server databases to store and retrieve data efficiently, resulting in a 20% reduction in database response time.
 - **CI/CD Pipeline Automation:** Managed Jenkins CI/CD pipeline jobs for end-to-end automation, ensuring smooth build, test, and delivery processes.
 - **REST API and Web Services:** Worked with REST API to integrate and interact with web services, enabling seamless data exchange and reducing integration time by 40%.
 - **Data Analysis and Visualization:** Analyzed large-scale tabular data using pandas and created 50+ visualizations using matplotlib, providing actionable insights to stakeholders and facilitating data-driven decision-making
 - **Web Scraping and Data Extraction:** Leveraged web scraping modules like BeautifulSoup in Python to extract data from websites. Scraped and processed data from multiple websites, enabling comprehensive data analysis.
 - **Logging Implementation:** Implemented logging strategies in Spring Boot, facilitating effective application monitoring and issue resolution, resulting in faster troubleshooting.

- **Test-driven Development:** Developed and executed JUnit test cases, achieving 95% code coverage and ensuring robust software quality.
- **Customer Data Analysis and Market Strategies:** Applied supervised and unsupervised machine learning models on customer data, deriving insightful patterns and trends, and developed market strategies based on data-driven insights.
- **Real-time Data Processing:** Utilized Kafka for real-time data processing, handling 1 million events per second and ensuring timely communication across system components.

TECHNICAL SKILLS

- **Languages:** Java, Python, C, C++, HTML, CSS, JavaScript, ReactJS, SQL
- **Frameworks:** Spring MVC4, Spring AOP4, Spring Cloud Hibernate4, Bootstrap, Django, JUnit, JPA
- **Libraries:** Numpy, Pandas, Scikit-learn, NLTK, SpaCy, TensorFlow, Keras, Matplotlib, OpenCV
- **Database:** Oracle, MySQL, SQL Server, MongoDB (NoSQL Database)
- **Tools:** CI/CD Pipelines, Docker, Kubernetes, GitLab, Maven, Gradle, Eclipse, IntelliJ, Postman, Elastic Search, Logstash, Kibana, Grafana
- **Version Control:** Git, GitHub
- **APIs:** REST, SOAP
- **Virtualization:** VMware, VirtualBox
- **Operating System:** Linux, Windows, macOS, Android
- **Project Management:** Agile/Scrum, Waterfall, JIRA, Confluence, ClickUp
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

PROJECTS

- **Gitterific (A web application to analyze the content on GitHub):** Designed a full stack reactive application using spring framework, the application consists of various features such as User and Repository profiles- A web app to fetch and render data using Rest-APIs from GitHub regarding repositories, based on a keyword along and parallel processing feature of Play for each request. Session management for searched topics to reduce the load on the server for the same requests. Implementation of Web-Socket to broadcast up-to-date search results every 10 seconds. Utilization of advanced topics like Completable Future and Actors of Play with the MVC feature.
Tech: Java, Spring boot, Postman
- **YouTube Clone (Full Stack Web Application):** A full-stack YouTube clone using React and Java with Spring Boot. This project utilized React Material UI components, MySQL database, and Amazon S3 for storing and serving video content. Implemented features such as user registration and authentication, video uploading and sharing, commenting, and video recommendations, and utilized Git and Jira for version control and project management.
Tech: Java, ReactJS, Spring boot, MySQL, AWS
- **Face Mask Detection (Data Extraction, Machine Learning, Artificial Intelligence):** Detecting Image data under rigorous algorithms for mask categorization, and in the next phase expanding the horizon of analysis on parameters of age and gender detection over the base model of Face Mask Detection.
Tech: Python, NumPy, Pandas, Torch, CNN, TensorFlow, Keras, Deep Learning, OpenCV
- **Plagiarism Detector (Algorithm Designing):** Implemented a Levenshtein Distance Algorithm with a SIM check to measure text similarity. It uses a Synonyms Map to group words and maintain word lists in processing order. The source and target texts are split into collections of words using the Word Collection internal class. Similarity count is calculated by looping through the target words list and checking against the Synonyms Map. The percentage of similarity is calculated, and if it is greater than 45%, it is considered plagiarism.
Tech: Java, Data Structure, Algorithms