

SKILLS

Technical Skills: Java, Python, Node.js, Java DB, PostgreSQL, MongoDB, Spring Frameworks, Spring Boot, OAuth2, REST API, HTML, CSS, JavaScript, Vue.js, Angular, TypeScript Bootstrap, Git, JIRA, Bitbucket, Postman

- Proficient in a wide range of programming languages, including Java, Python, and Node.js, with a focus on leveraging their respective frameworks and libraries to build robust and scalable solutions.
- Experienced in working with various databases such as Java DB, PostgreSQL, and MongoDB, utilizing them effectively to store and retrieve data in an optimized manner.
- Skilled in developing RESTful APIs and integrating with external systems, showcasing expertise in technologies such as Spring Boot, HTML, CSS, JavaScript, and popular front-end frameworks like Vue.js, Angular, and TypeScript.

WORK EXPERIENCE

OGES INFOTECH

Mississauga, Ontario

Junior Java Developer

May 2023 – August 2023

- Developed a Java application utilizing the Spring Framework for building a robust and scalable solution.
- Implemented RESTful web services to integrate with external APIs for generating and managing e-way bills.
- Demonstrated expertise in deploying and configuring key components like the Keycloak server, Spring Cloud API Gateway, and Eureka Registry, facilitating seamless communication between services and ensuring secure authentication.
- Proficiently utilized MongoDB for efficient CRUD operations, data filtering, and advanced features like the Aggregation Framework, ensuring optimal performance.
- Independently developed a secure and scalable solution for OAuth 2.0 resource protection using Spring Security 5, configuring authorization flows and integrating social login functionality.
- Implemented error handling and exception management to ensure smooth and reliable application execution.

Western AI

London, Ontario

Lead Software Developer

September 2022 – April 2023

- Spearheaded a team of 5 developers in building a machine learning model using Jupyter Notebooks, TensorFlow, Scikit-learn, and XGBoost to accurately predict item sales with a 5% margin of error.
- Oversaw the implementation of data pre-processing and the creation of the data frame for predictions.
- Guided the team in utilizing various technologies, including Python, Jupyter Notebooks, TensorFlow, Scikit-learn, Numpy, Pandas, XGBoost, and Matplotlib
- Ensured effective collaboration and knowledge sharing among team members, leading to the successful development of the sales forecasting model.

The Buckmaster Institute, Inc.

Vancouver, British Columbia

Junior Software Developer

May 2022 – August 2022

- Transcribed hard-coded Python scripts to improve efficiency by future proofing the implementation of developed Python scripts that transcribe audio recordings to musical notation while detecting different frequencies within the file
- Produced audio files of different frequencies using a Python sound library - pyAudioAnalysis while plotting music notations to analyze the sound quality that was being generated with an accuracy rate of 87%
- Developed Python scripts of well-constructed, testable code for transcribing recordings; improved its efficiency by 95%
- Submitted 20+ company database entries of CSV file analysis using various python packages such as SciPy, NumPy, Plac, StatsModels and Matplotlib

PROJECTS

The Watercooler

Hack Western 9

- Developed a full stack application with a team of three individuals that connects employees in remote workforces with one another based on their interests.
- Constructed the front end of the application using HTML, Bootstrap, and JavaScript that would receive input from the user and be sent to a database hosted on AWS.
- Technologies: HTML, Bootstrap, JavaScript, AWS, PostgreSQL, Rest, Express.js, Node.js

Tennis Game Management System

- Developed a comprehensive database management system for sports teams, enabling efficient tracking teams and matches.
- Implemented a user-friendly interface for coaches and team managers to easily input, manage, and access key data points, such as game schedules, and team rosters.
- Demonstrated strong technical skills and knowledge of database management principles, including database design, data normalization, and query optimization.

Sorting Method Visualizer

- Developed a JavaFX-based application using the Strategy design pattern to simulate the efficiency of sorting algorithms such as Merge sort and Selection sort.
- Implemented GUI controls, including a Slider control for array size, ComboBox control for selecting sorting algorithm, and Label control to hold slider value, all in compliance with specific UI design requirements.
- Built a controller component with four classes, including SortingStrategy interface, SortingHubController, MergeSort, and one of SelectionSort, InsertionSort, or QuickSort, to enable the sorting process and update the screen during the process.

EDUCATION

University of Western Ontario

London, Ontario

Bachelor of Engineering Science, Software Engineering (BESc)

2021 - 2025