

Abdullah Sherwani

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EDUCATION

University of Alberta

Bachelor of Science in Computer Engineering Co-op - Software Option

Edmonton, AB

Sep. 2021 - Apr 2026

PROJECT EXPERIENCE

Portfolio Website

Store Item Demand Forecaster | *Upgini, Pandas, CatBoost*

Jan 2024 - Feb 2024

- Developed a robust store item demand forecasting system by leveraging advanced machine learning techniques, specifically utilizing the powerful CatBoost Regressor model
- Employed the Upgini library to enhance the dataset, tailoring it explicitly for time series analysis. This enrichment process played a pivotal role in improving the model's performance
- Utilized Pandas to ingest and preprocess a comprehensive 5-year dataset, enabling efficient division into distinct subsets for both training and testing purposes

Platformer Video Game | *Pygame*

Jan 2024 - Feb 2024

- Engineered an engaging and dynamic platformer video game using the Pygame library, showcasing a seamless integration of visual and interactive elements, resulting in an entertaining and immersive gaming environment
- Crafted a diverse gaming experience through the implementation of over 10 unique levels, each presenting a distinctive challenge, featuring intricate puzzles and elements like lava hazards and moving platforms
- Introduced more than 5 types of adversaries and obstacles strategically placed across the levels, enhancing gameplay dynamics and requiring players to employ varied strategies

Open Source Project Website | *React, Node.js, Firebase, Bootstrap*

Oct 2023 - Dec 2023

- Developed an interactive website for sharing and collaborating on open source projects, capitalizing the power of React for front-end responsiveness and Node.js for seamless back-end functionality
- Elevated the user experience through implementation of CSS and Bootstrap to ensure a friendly interface
- Utilized Firebase as the database solution, ensuring robust data storage for user profiles and project information

WORK EXPERIENCE

Lathe Machine Operator

July 2021 – August 2021

Fine Machine Works

Calgary, AB

- Operated and cleaned the main CNC saw producing 50+ parts per day
- Organized and stored the 50+ produced parts and delivered to coworkers
- Cooperated with coworkers to construct the dimensions of parts made from 10+ unique metals and utilized the dimensions while operating the saw

CNC Machine Assistant

July 2018 – August 2018

Fine Machine Works

Calgary, AB

- Cleaned the 8 large CNC machines, removing all the oil, lubricant and metal shaving remaining inside the machines
- Collaborated with coworkers to allot 10-20 minutes for machine cleaning
- Evaluated and assisted in quality control of 100+ products using various tools

LEADERSHIP EXPERIENCE

Islamic Center of South Calgary, Volunteer

Jan 2017 - Sep 2021

- Volunteered in 200+ community events, responsible for setting up and packing up equipment and necessities
- Taught in the Quran School with approximately 5 students assigned, beginning from basic arabic alphabets and pronunciation, and building up to proactively reading and memorizing the holy Quran
- Operated the credit/debit card terminal which allowed for donations to be made to the center

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, SQL, JavaScript, HTML, CSS, MATLAB, Swift

Frameworks: React, Node.js, WordPress, Bootstrap, Spring

Developer Tools: Github, Docker, VS Code, Eclipse, AutoCad

Misc: MS Suite, Pandas, NumPy, Matplotlib, Drones, MongoDB, Upgini, CatBoost, Pygame