

Aryan Patel

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Engineering at Alberta

WORK EXPERIENCE

Process Analytics | Teck Resources Ltd., Sparwood, BC

Jan 2023 - Aug 2023

- Developed an interactive Python-based dashboard using Streamlit, Matplotlib, and other libraries, integrating data analysis, AI, and machine learning for data visualization, saving \$10,000 - \$50,000 yearly on third-party subscriptions.
- Empowered operators with actionable insights for early malfunction detection and equip leaders with comprehensive statistical data analysis of historical plant and shift performance, resulting in a 15% reduction in equipment downtime
- Created and deployed a train loading tracker dashboard that optimized product loading quality and quantity, resulting in substantial cost savings for port and mine operations
- Key contributor to change management initiatives, introducing new technologies and methodologies while working closely with operators to ensure a smooth transition
- Contributed to the development of an AI model for an analyzer in Python, converted it into a MATLAB program and facilitated seamless integration into existing processes; thereby reducing product's lab analysis time by 95%
- Spearheaded comprehensive analyses of the flotation circuit to develop and implement optimal strategies for maximizing yield, achieving a 2% increase in flotation circuit yield
- Demonstrated adaptability and teamwork by expanding my expertise to conduct validation testing of an analyzer and documenting process and result for stakeholders. Potentially reducing lab testing time from 1 hour to 2 minutes, empowering operators to gain insights into product quality and quantity through increased sample processing capacity.
- Led the assessment and implementation of Model Predictive Control (MPC), actively soliciting feedback and suggestions from operators and promptly delivering requested changes

Packer | Amazon Warehouse, Edmonton, AB

May 2021 - Aug 2021

- Undertook assigned warehouse duties including packing, scanning, shipping
- Operated at 2 times the required packing rate, while consistently keeping a clean workspace
- Promoted to a permanent position after continually achieving the highest hourly rate for 3 consecutive months

Dispatcher | Crown Cab, North Battleford, SK

Feb 2018 - Aug 2020

- Modified and maintained detailed records of calls in a physical and electronic database
- Managed a company for 6 months, from dispatcher and driver schedule to system and car maintenance
- Spearheaded a team in getting staff contracts from casinos and hotels
- Hired and trained new drivers to meet the 4% increase in ride demand caused by the new casino contract
- Provided feedback to owner and resolved customer's and co-worker's various concerns

PROJECT EXPERIENCE

Inventory Tracker | Individual Project (https://github.com/avpatel1/avpatel1/blob/main/Inventory_tracker.py)

Aug 2022

- Formulated an inventory tracker using Python to track the supply and cost of an individual item
- Designed a continuous free flow tracker that employees can use for inventory management responsibilities
- Created a user-friendly interface for customers to interact with products
- Accounted for edge cases to ensure the program runs in all scenarios

High School CS30 Project | Indian Cricket Team Website

Dec 2019 - Jan 2020

- Designed Indian cricket team website using ideas from a given HTML format using CSS
- Studied how to link multiple pages together to create a multi-page website
- Organized front end of a website placing different content in the correct order and format to enhance visual appeal

EDUCATION

B.Sc. in Computer Engineering Co-op (4th year)

University of Alberta

April 2025

PROFESSIONAL AFFILIATIONS & CERTIFICATES

CSTS Certificate - Alberta Construction Safety Association,
WHMIS - Workplace Hazardous Material Information System,
Honours with Distinction, John Paul 2 High School,

Sept 2020
Jan 2021
2019 - 2020