# Tahsin Jawwad

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## EDUCATION

**UNIVERSITY OF BRITISH COLUMBIA**                                     Kelowna, BC
Bachelor of Science                                                    Expected June 2026
Major in Computer Science; Minor in Data Science
Cumulative GPA: 4.33/4.33; Cumulative Average: 96.7%
International Major Entrance Scholarship, Outstanding International Student Award, Dean's List 2022-2024
Relevant Coursework: Databases, Machine Learning, Applied Regression Analysis, Time Series and Forecasting, Analysis of Algorithms, Networking, Software Engineering, Machine Architecture, Data Structures

## EXPERIENCE

**DATA ANALYTICS INTERN**                                              Dubai
OLEO Energy DMCC                                                       Jun - Jul 2024
- Performed comprehensive data analysis on over 10,000 barrels of oil trade data using Python to extract, manipulate, and analyze large datasets, resulting in a 10% improvement in trade efficiency
- Integrated business intelligence tools like Tableau and Excel for visualizing complex data trends

## PROJECTS

**TEXT-TO-SQL RESEARCH**                                              Jan - Apr 2025
- Reproducing experiments on Generative AI and exploring applications in query tools and SQL education
- Developing approaches combining LLMs with metadata to improve query translation accuracy
- Using Jupyter Notebooks with Python packages including LangChain, OpenAI, pandas, etc.

**MOVIE RECOMMENDATION SYSTEM**                                        Aug 2024
- Built a movie recommendation system using Python TensorFlow with collaborative and content-based filtering
- Processed MovieLens data to create user-movie interaction matrices for personalized movie recommendations
- Implemented 5,931,640 params for 100 features over 200 iterations to produce efficient results

**DISCORD CLONE**                                                      Nov - Dec 2024
- Developed a dockerized web app as a part of a group project for Software Engineering course
- Utilized Next.js, TailwindCSS, and TypeScript/JavaScript to construct a robust, full-stack application architecture

## CERTIFICATION

**MACHINE LEARNING SPECIALIZATION**                                   Jun - Jul 2024
DeepLearning.AI & Stanford University, Coursera
- Built supervised ML models with NumPy, scikit-learn, and TensorFlow for classification and prediction
- Used unsupervised learning techniques including clustering and anomaly detection
- Learnt about advanced learning algorithms such as deep and convolutional neural networks

## ACTIVITIES

**ALAN TURING CLUB**                                                  The Winchester School
Club Leader and Instructor                                           Sep 2021 - Apr 2022
- Led and instructed secondary school students on Artificial Intelligence
- Explored concepts such as K-nearest neighbor and classification to raise interest among young learners in the emerging world of AI

## ADDITIONAL

**Languages/Programs**: Python, SQL, Java, HTML/CSS, JavaScript, R, MongoDB, Docker
**Libraries/Frameworks**: pandas, NumPy, TensorFlow, scikit-learn, Django, React, Node.js, Next.js, TailwindCSS
**Skills**: Programming, Machine Learning, Databases, Mathematical Analysis, Data Analysis, Back-end, Front-end
**Awards**: Best Across Three in the UAE, UAE National Mathematics Olympiad Gold Medalist, HOMC Senior Rep