Tushar Jindal

+1 236-412-0273 | tjinda01@student.ubc.ca | https://tjindl.ninja | https://www.linkedin.com/tjindl | https://github.com/Tjindl

Summary

Passionate mathematics and data science student at UBC with hands-on experience in software development and data-driven projects. Proficient in Java, Python, and React, with a proven ability to design impactful solutions and collaborate effectively in teams. Seeking a software engineering or data science internship to apply and expand my technical skills in real-world applications, particularly in building scalable and efficient solutions.

Education

The University Of British Columbia Vancouver, BC

Bachelor of Science in Mathematics *Expected Graduation - May 2027*

Concentrations : Data Science and Software Development

Coursework : Data Analytics, Machine Learning, Computing in Python, Functional Programming, Computing in Java, Software Construction, Mathematical Computing, Calculus and Probability

Projects

The Sports Rental App | *Java, Swing, Abstraction, Persistence, Unit testing, JDBC*

- Developed a full-stack application that reduces manual tracking time and minimizes errors in rental management for a sports equipment business.
- Automated customer tracking, inventory management, and bill generation, improving operational efficiency and enabling faster transactions.
- Optimized data persistence and retrieval ensuring seamless access to rental records and reducing data inconsistency.
- Designed with a focus on speed and usability with plans to transition from Swing to a modern UI framework for better user experience.

Star Prediction | *Python , Pandas, Altair, Classification, SQL*

- Collaborated in a college group project to develop a machine learning model for star classification based on physical attributes.
- Analyzed different parameter sets to determine which combinations led to more reliable and consistent predictions
- Trained two machine learning models and created confusion matrices to evaluate and compare the performance of each dataset, identifying the most accurate one.
- Assisted in algorithm selection and hyperparameter tuning, optimizing model behavior based on project requirements.
- Facilitated teamwork and problem-solving, ensuring smooth project progression and successful completion.

CodeMate | *JavaScript, React, CSS, HTML, Gemini API, Node JS, Artificial Intelligence*

- Designed and developed a React-based chatbot, CodeMate, tailored for software developers, enhancing productivity through context-aware interactions.
- Developed a user-friendly interface with dynamic conversation flow, ensuring a smooth experience.
- Implemented modular components and efficient state management for scalable development.

Technical Skills

Languages: JavaScript, TypeScript, Java, Python, C++, SQL, Racket
Frameworks: Angular, Django, React, Node.js, Flask, JUnit, WordPress, FastAPI
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Familiarity with basic Azure services like Azure VM instances, Azure storage counts, networking services, Azure SQL and Azure AI services
Libraries: Pandas, NumPy, Matplotlib, Altair, Swing, Tensorflow, Spring Boot, Scikit-learn
Skills: Data Structures and Algorithms, Object Oriented Programming concepts, Classification, Clustering, Regression, Tuning, Version Control, Abstraction, Exception handling, Bi-directional relationships, Inheritance and hierarchy in Java, Design Patterns(Composite, Observer, Singleton, Iterator), Sequence Diagrams and UML Diagrams, Recursion, Excellent Analytical skills.
Coursework: Excellent scores in **mathematics** courses, mostly **12-15 percent higher than class average.**