

Dev Vyas

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EDUCATION

York University

Toronto, ON

Bachelor of Science Honours in Computer Science

January 2022 – October 2025

- *Relevant courses:* Software Design | Advanced OOP w/Java | DBMS | Building E-commerce Systems | Big Data
- *Certifications:* The Complete Java Development Bootcamp by *Udemy* , The Complete Spring boot Development Bootcamp by *Udemy*

EXPERIENCE

Peer Tutor - Lassonde School Of Engineering

September 2023 – April 2024

York University

Toronto, ON

- Delivered **15+ academic workshops** for **200+ students**, simplifying technical concepts and boosting comprehension scores in programming fundamentals.
- Mentored peers in debugging and project design, contributing to a **15% increase in first-year retention**.
- Fostered collaborative learning environments by tailoring support to both group and one-on-one needs.

Executive Director of External – SoccerWorld@YU

September 2022 – December 2023

York University

Toronto, ON

- Directed outreach campaigns and external partnerships, increasing student engagement by **30% across events**.
- Negotiated and maintained sponsorship relationships, securing resources that expanded club operations.
- Coordinated external communications and marketing, strengthening brand visibility across campus.

PROJECTS

WikiMon – Wikipedia Streaming Analytics | *PySpark, Google Colab, Python*

- Processed **1.1 M+** Wikipedia change events using **PySpark** to analyze user activity patterns over time.
- Implemented a simplified **DGIM** algorithm to approximate counts with limited memory, achieving high accuracy in large-scale data processing.
- Visualized results with interactive histograms, providing operational insights into user behavior trends.

Memeify - EdTech Flashcard Platform | *React, Flask, Groq, SQLAlchemy*

- Developed a full-stack platform that converts lecture content into **auto-generated flashcards paired with memes**, making studying engaging for students.
- Integrated Groq and Imgflip APIs, managing content persistence with SQLAlchemy.
- Delivered a working MVP in **36 hours** during Ignition Hacks 2024, demonstrating speed and collaboration in hackathon conditions.

Spotify Clone - Microservices App | *Java, Spring Boot, MongoDB, Neo4j, RESTful API*

- Designed and implemented a microservices-based backend architecture simulating Spotify using **Spring Boot** and **REST APIs**.
- Designed playlist and user relationship models with **Neo4j**, supporting advanced social graph queries.
- Applied **JUnit testing and modular design** to ensure reliability and maintainability in an Agile team setting.

M&H E-commerce WebApp | *JSP, SQLite, Docker*

- Developed a full-stack e-commerce platform using **JSP** and **SQLite**, following the full **SDLC** and applying **MVC** design patterns.
- Implemented version control with Git and containerized the application with **Docker** to enable seamless deployment.
- Improved scalability and maintainability through modular design and efficient database integration.

SKILL PROFILE

Languages: Java, Python, JavaScript, C/C++, HTML/CSS

Frameworks & Libraries: Spring Boot, React, Node.js, Express, REST API, Flask

Databases: PostgreSQL, MongoDB, MySQL, SQLite

Development Tools: Docker, Git/GitHub, PySpark, JUnit, CI/CD pipelines (GitHub Actions), Agile/Scrum