# Dhruv Khanna

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## EDUCATION

**University of British Columbia** — Vancouver, BC

*Bachelor of Science in Computer Science, Minor in Commerce* — *2020 – 2025*

Relevant Coursework: Machine Learning and Data Mining, Object-Oriented Software Construction, Algorithms & Data Structures, Advanced Relational Databases, Operating Systems, Randomized Algorithms, Strategic Management, Business Finance, Financial Accounting, Business Processes and Operations

## EXPERIENCE

**Software Engineering Intern** — June 2025 – Present

*NewGen Software, Remote*

- Completed training in advanced AI technologies including Retrieval-Augmented Generation (RAG), Agentic AI, and Natural Language Processing (NLP).
- Scoped a personal AI-focused project under the mentorship of a Senior Data Scientist working on *Lumyn*, a core NewGen product.
- Researched advanced architectural patterns for building intelligent agents and AI pipelines using open-source LLM tools and vector databases.

## PROJECTS

**Digital Asset Management Platform** — **for Associated Engineering**

*Fullstack Lead - CPSC 319* — *.NET 8, C#, Azure, React, xUnit*

- Led full-stack development in a team of 8, managing 2 direct reports and coordinating delivery with client AE.
- Architected and implemented .NET APIs for metadata handling, file uploads, and role-based access control.
- Developed React front-end with dynamic search, filters, & admin workflows, deployed via Azure Static Web Apps.
- Implemented image upload pipelines, metadata-driven search, compression, and automated archival workflows.
- Integrated Azure SQL and Blob Storage; ensured end-to-end functionality, security, and deployment readiness. **Reduced file access time by 60% in client use.**
- Wrote tests in xUnit and configured CI/CD with GitHub Actions; delivered project with post-deployment warranty.

**BuyWise – Smart Shopping Assistant** — Node.js, React, Docker, REST APIs, NLP

*University of British Columbia – CPSC 455*

- Collaborated in a team of 4 to develop a full-stack application that parses natural language queries and aggregates product data from Amazon, Walmart, and Kijiji.
- Designed and implemented modular REST APIs using Node.js for query parsing, product aggregation, and user preference handling.
- Built a dynamic React front-end supporting real-time search, filtering, and personalized recommendation modules.
- Containerized the application using Docker and orchestrated services with `docker-compose` to streamline deployment and scalability.
- Integrated AI-driven ranking logic leveraging semantic analysis and user history to optimize search relevance.

**UBC Insight Platform** — **Demo** — TypeScript, Next.js, Tailwind CSS

*University of British Columbia - CPSC310*

- Developed a full-stack web application for parsing, analyzing, and visualizing UBC course section data.
- Built modular, reusable components with Next.js and styled responsive interfaces using Tailwind CSS.
- Implemented custom query logic to efficiently filter and transform nested JSON datasets for display.
- Collaborated in a team environment leveraging Git and Yarn for version control, testing, and deployment.

## TECHNICAL SKILLS

**Languages:** C#, Java, Python, TypeScript, JavaScript, SQL, HTML, CSS

**Frameworks:** .NET 8, React, Next.js, Flask, Tailwind CSS, PHP, Node.js

**Databases:** Azure SQL, Oracle DB, MySQL, JSON