

# Dhruv Khanna

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## EDUCATION

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|--|------------------------------|
| <b>University of British Columbia</b><br><i>Bachelor of Science in Computer Science, Minor in Commerce</i><br>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 | Vancouver, BC<br>2020 – 2025 |
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## EXPERIENCE

|   |                           |
|---|---------------------------|
| <b>Full Stack Engineer</b><br><i>Critical Insights, Vancouver, BC</i>   | November 2025 – Present   |
| <ul style="list-style-type: none"><li>Built parent-facing interfaces for an ICU/NICU healthcare platform, focusing on secure, reliable, and intuitive experiences for non-technical users.</li><li>Developed React-based dashboards supporting authentication, privacy controls, messaging, and educational content.</li><li>Implemented Node.js REST APIs for parent onboarding, role-based access control (RBAC), hospital-level data isolation, and patient associations.</li><li>Developed a Retrieval-Augmented Generation (RAG) chatbot to help parents navigate the platform and access FAQs using vector search, prompt design, and context management over curated hospital content.</li><li>Implemented secure, low-latency live video streaming for parent access to bedside camera feeds with hospital-configurable privacy policies.</li></ul> |                           |
| <b>Software Engineering Intern</b><br><i>NewGen Software, Remote</i>  | June 2025 – December 2025 |

## PROJECTS

|   |  |
|---|--|
| <b>Digital Asset Management Platform</b> — <b>for Associated Engineering</b>  | .NET 8, C#, Azure, React, xUnit        |
| <i>Fullstack Lead - CPSC 319</i>  |  |
| <ul style="list-style-type: none"><li>Led full-stack development in a team of 8, managing 2 direct reports and coordinating delivery with client AE.</li><li>Architected and implemented .NET APIs for metadata handling, file uploads, and role-based access control.</li><li>Developed React front-end with dynamic search, filters, &amp; admin workflows, deployed via Azure Static Web Apps.</li><li>Implemented image upload pipelines, metadata-driven search, compression, and automated archival workflows.</li><li>Integrated Azure SQL and Blob Storage; ensured end-to-end functionality, security, and deployment readiness. <b>Reduced file access time by 60% in client use.</b></li><li>Wrote tests in xUnit and configured CI/CD with GitHub Actions; delivered project with post-deployment warranty.</li></ul> |  |
| <b>BuyWise – Smart Shopping Assistant</b>   | Node.js, React, Docker, REST APIs, NLP |
| <i>University of British Columbia – CPSC 455</i>  |  |
| <ul style="list-style-type: none"><li>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.</li><li>Designed and implemented modular REST APIs using Node.js for query parsing, product aggregation, and user preference handling.</li><li>Built a dynamic React front-end supporting real-time search, filtering, and personalized recommendation modules.</li><li>Containerized the application using Docker and orchestrated services with <code>docker-compose</code> to streamline deployment and scalability.</li><li>Integrated AI-driven ranking logic leveraging semantic analysis and user history to optimize search relevance.</li></ul>   |  |

## 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