

Ishvir Chopra

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EDUCATION

University of Waterloo | BCS - Bachelor of Computer Science | 4.0 GPA

Sep. 2025 - Present

- **Relevant Coursework:** Functional Programming, Algorithms, Calculus I, Calculus II, Algebra, Linear Algebra

TECHNICAL SKILLS

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

Tools and Frameworks: Node.js, Next.js, React, MongoDB Atlas, Supabase, Vercel, PyTorch, OpenCV, Pandas, Numpy, Matplotlib, Scikit-learn, Mediapipe, Pillow, Git, Linux, Power BI, Excel, Unity 6

RELEVANT EXPERIENCE

Compunnel Canada | *Project Intern* | London, ON

Jun. 2024 - Sep. 2024

- Refactored a Python ETL pipeline, eliminating redundant transforms reducing runtime from 45s to 38s
- Profiled execution stages; cached intermediate results to improve visualization speed by ~12%
- Debugged data assumption and column handling errors, boosting report accuracy from 82% to 95%

Red Circle Inc | *Project Intern* | Chicago, IL

Dec. 2023 - Feb. 2024

- Researched 50+ Chicago startups across 3 VC portfolios (Motivate, LOEB, 11 Tribes) in 8 tech sectors
- Compiled 50+ profiles (2 pages each) with funding stages, employee counts, and technology stack analysis
- Delivered insights directly contributing to 12 client acquisitions generating \$45K+ revenue in 3 months

Artificial Intelligence and Machine Learning: A New Frontier | *Co-Author* | [Research Paper](#)

Jun. 2024

- Published research in Arseam Foundation, analyzing how study habits affect academic performance using ML
- Built a linear regression model ($R^2 = 0.89$) predicting exam scores for 1,000 students in Python
- Proposed AI-driven intervention strategies to help educators proactively identify at-risk students

PROJECTS

Wrap It Up | [Github](#) | [Live](#) | *TypeScript, Next.js, React, Supabase, Vercel, Tailwind CSS, Groq AI*

Jan. 2026

- Built assignment tracker with 0-100 panic scoring and live countdowns updating every second
- Integrated Groq AI for syllabus parsing (PDF/image), 7-day study plans, and email drafts
- Deployed with Supabase auth, 3-table database, and 24hr deadline conflict detection

ASL Classifier | [Github](#) | *Python, OpenCV, Pickle, MediaPipe, Matplotlib, NumPy, Scikit-learn*

Nov. 2025

- Built a real-time ASL alphabet classifier capable of recognizing all 26 letters
- Achieved 99% accuracy using a dataset of custom 5,200+ training images
- Implemented MediaPipe hand tracking, extracted normalized landmarks, and trained a RandomForest model

Digit Classifier | [Github](#) | *Python, PyTorch, NumPy, Pillow, Torchvision*

Oct. 2025

- Developed a deep neural network to recognize handwritten digits from images
- Achieved 94%+ accuracy on the MNIST dataset with high consistency across tests
- Designed a 3-layer feedforward architecture with ReLU activations and optimized it using the Adam optimizer

E-Commerce App | [Github](#) | *JavaScript, Tailwind CSS, Next.js, React, MongoDB Atlas, Node.js*

Nov. 2025

- Built a full-stack e-commerce app with Next.js, MongoDB, Stripe, with dynamic products and a persistent cart
- Optimized API routes and Mongoose models, reducing backend response time by ~20%
- Built a responsive UI with Tailwind CSS and added localStorage-based cart persistence

Bronze Layer Data Warehouse | [Github](#) | *SQL Server, SQL, Stored Procedures, CSV*

May 2025

- Built SQL Server ETL pipeline with BULK INSERT, cutting data load time by ~40%
- Added load-duration tracking and error logging, improving pipeline reliability by ~25%

Sales Dashboard | *PowerBI, Excel, DAX*

Jan. 2026

- Modeled sales invoices and customer data in Power BI, cleaning raw inputs for accurate reporting
- Built a dashboard with KPIs, regional breakdowns, and YoY comparisons to surface sales trends