

Zayaan Bhanwadia

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EDUCATION

University of Toronto Scarborough

Honours Bachelor of Science in Computer Science

Scarborough, ON

Sep. 2025 – Present

PROJECTS

Clinical AI Assistant (Top 10 Projects) | *Python, FastAPI, OpenCV* Mar. 2026 @ GenAI Genesis

- Developed an AI clinical assistant using IBM Watsonx APIs to automate patient check-ins and structure data.
- Engineered a live monitoring dashboard with a computer vision module for real-time fall detection.
- Built a PIPEDA-compliant backend using FastAPI and Supabase to process healthcare information securely.

Automated Table Tennis Referee (Finalist) | *Python, Computer Vision* Mar. 2026 @ Hack Canada

- Engineered an automated referee system using computer vision to track live gameplay and determine outcomes.
- Integrated a Solana-based polymarket to enable secure wagering.
- Placed top 3 for best use of Solana API in HackCanada 2026.

Sustainability NFT Tokener (3rd Place Overall) | *Python, JavaScript* Feb. 2026 @ UTRA Hacks

- Developed a proof-of-impact sustainability application using Gemini AI to verify environmentally sustainable actions.
- Integrated Solana blockchain to tokenize NFTs for verified actions. Achieved 92% verification accuracy.
- Placed 3rd for best overall project.

Windows Terminal AI Assistant | *Python* Jan. 2026

- Engineered an AI-powered assistant using GPT-OSS that translates natural language into terminal commands.
- Implemented a safety interception layer to detect and block potentially destructive commands.

AI-Powered YouTube Video Analyst | *Python, YouTube Data API* Dec. 2025

- Built a machine learning pipeline using Gemini API to analyze video metadata and thumbnails for clickbait detection using user preferences and prompting.
- Used YouTube API to search YouTube for videos that match the user's interests and fall within a certain time frame.

EXPERIENCE

Executive, Association of Mathematics and Computer Science Students 2025 – Present

University of Toronto Scarborough

Scarborough, ON

- Produced and distributed a departmental newsletter for the Computer and Mathematical Sciences Department.
- Reached over 2000 students and achieved an open rate over 50%.

DECA International Career Development Conference Qualifier Sep. 2024 – June 2025

DECA Inc.

International

- Placed Top 20 internationally in Startup Marketing Campaigns.
- Trained a group of 8 students in written events and marketing strategy, with around 50% qualifying for ICDC.

Co-President, NASA HUNCH Sep. 2023 – June 2025

NASA HUNCH Program

Canada

- Led team to 3rd place, becoming the first ever Canadian school to compete in NASA Hunch.
- Developed an autonomous Lunar Explorer and CAD simulation using Arduino, capable of traversing lunar terrain.

Vice President of Technology, BLINK JA Sep. 2022 – June 2023

Junior Achievement Company Program

Canada

- Led a team of 5 to design and maintain a company website, generating over \$2,300 in online sales.
- Tracked and analyzed website sales metrics to support executive marketing decisions, increasing website traffic by 30%.

TECHNICAL SKILLS

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

Libraries: OpenCV, PyTorch, NumPy, Tailwind CSS, Next.js

Developer Tools: Git, Visual Studio Code, JetBrains, Linux, Visio, Docker, Vercel, AWS, Vultr, PostgreSQL, Supabase