

Kashish Mittal

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EDUCATION

University of Toronto, Canada

Sept 2022 – June 2026

Honors Bachelor's of Science Computer Science with Minors in Mathematics & Economics (Co-op)

- **GPA:** 4.0/4.0, **Dean's List Scholar Winter 2023**
- **University of Toronto International Scholar Award Recipient:** scholarship amounting to 100,000 CAD
- **Relevant Courses:** Software Design, Databases, Data Structures and Algorithms, Software Tools and Systems Programming

TECHNICAL SKILLS

Languages: Java, Python, C, SQL (Postgres, MySQL), JavaScript, HTML/CSS, R

Frameworks & Developer Tools: React, Next.js, Flask, JUnit, WordPress, Material-UI, Bootstrap, Git, Figma

Libraries: NLTK, SpaCy, Stanford CoreNLP, NumPy

SELECTED TECHNICAL PROJECTS

Memorify | *React, Tailwind, Django, Cohere API, Midjourney*

UofTHacks XI (2024)

- Engineered an AI journaling tool, converting text entries into a dynamic contact book with personalized cartoon avatars.
- Integrated **Cohere's API** endpoints with **Midjourney AI** for advanced text analysis and unique avatar generation.
- Led UI development using **Figma, React, and Tailwind CSS** to achieve an intuitive and user-friendly interface.

DiscoverCity | *Java, JSON*

Oct 2023 – Dec 2023

- Led a team in creating a travel app using the OpenTripMap **API** for location suggestions and storing data in JSON format.
- Implemented **design patterns, Clean Architecture and SOLID principles** for scalability and adaptability.
- Established a comprehensive testing suite covering **75%** of the codebase, ensuring the app's reliability.

Academic Weapon | *React, Flask, Python*

NewHacks 2023

- Collaboratively developed a tool converting notes into flashcards and quizzes using **GPT-3.5** and **Microsoft Azure's OCR**.
- Led **React**-based frontend development, ensuring a user-friendly flashcards interface & implementing key design principles.

Compel-O-Meter | *Python, Flask*

Feb 2023 – July 2023

- Developed a tool which detects propaganda and hate speech against marginalized groups with 3 other students.
- Implemented an **AI-based sentiment lexicon** projected to improve long-term model accuracy by **15%** after 1000 inputs.
- Boosted sentiment analysis accuracy by 21%(survey result) via **NLP pipelines, and data cleansing**.

TECHNICAL WORK EXPERIENCE

Lead Game Developer

Sept 2023 – Present

Authentic Learning Lab, University of Toronto, Toronto ON

- Leading the development of "Game of Social Life," a gamified educational tool addressing social issues.
- Enhanced user engagement metrics with **Twine prototyping**, impactful gamification, and collaborative **UX** improvements.

Front-End Developer

Sept 2023 – Present

University of Toronto Machine Intelligence Student Team (UTMIST), Toronto ON

- Rebuilt UTMIST's site with **Next.js** and **Tailwind CSS**, ensuring responsiveness and visual appeal per **Figma** specs.
- Promoted modularity and scalability via **Object-Oriented Design (OOD)**, ensuring a flexible architecture.
- Emphasized iterative development, adaptability, and collaboration for a high-quality website in line with **Agile** principles.

Software Developer and Research Assistant

May 2023 – Sept 2023

Intelligent Adaptive Interventions Lab, University of Toronto, Toronto ON

- Collaborated closely with researchers to develop ABScribe, a tool for efficiently handling diverse text variations with LLMs.
- **Co-authored paper** "ABSCRIBE: Rapid Exploration of Writing Variations in Human-AI Co-Writing Tasks using Large Language Models," accepted at **ACM (Association of Computing Machinery) CHI conference on Human Factors in Computing Systems 2024**.

TECHNOLOGY LEADERSHIP

General Council Member, Communications Team

Sept 2023 – Present

Computer Science Student Union, University of Toronto

Toronto, Ontario

- Coordinated biweekly, achieving a **20%** efficiency boost through initiative discussions and milestone tracking with executives.
- Drove **21%** growth in an online community of **2257+** users by assisting VP in marketing vision recruitment, and onboarding.