

# Vaibhav Gupta

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## EDUCATION

### University of Toronto Scarborough

*Honours Bachelor of Science in Computer Science*

Toronto, ON

*Sep. 2023 – Sep. 2027*

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, TypeScript, HTML/CSS, Assembly

**Frameworks:** React, Node.js, Flask, JUnit, Django, FastAPI, Angular, Vue.js

**Developer Tools:** Git, Docker, VS Code, IntelliJ

**Libraries:** TailWindCSS, Tkinter, Cohere, OpenAI, WebRTC, NumPy, BeautifulSoup

## EXPERIENCE

### Vice President of Technology — C.R.E.A.T.E. Club

*University of Toronto Scarborough*

Toronto, ON

*Nov. 2024 – Present*

- Led development of the club's official website using React and TailwindCSS.
- Managed GitHub organization of 40+ students, granting controlled access to project leads.
- Collaborated with executives to streamline project onboarding and support events.

## PROJECTS

### AI Safety App "SafeOStroll" | *Hack the Valley 9*

November 2024

- Developed an AI app monitoring user emotions in real-time, providing calming resources or connecting to emergency services based on emotional indicators.
- Implemented seamless voice interaction with WebRTC for continuous user-AI communication.
- Integrated HERE Maps API for location tracking and emergency routing.
- **Tech Stack:** Python, Django, React, PostgreSQL

### C.R.E.A.T.E. Club Website | *C.R.E.A.T.E. Club*

May 2025

- Designed and developed the official website as VP of Tech using React and TailwindCSS.
- Implemented a modular frontend integrated with the backend to support club activities and project displays.
- **Tech Stack:** TailwindCSS, React

### QualiD App and Website | *Intro to Software Engineering*

Jan 2025 – April 2025

- Building a web platform for QualiD, a startup simplifying ESG reporting through centralized data and AI.
- Collaborating with a cross-functional team to design scalable architecture and intuitive interfaces.
- **Tech Stack:** Django, TailwindCSS, JavaScript, PostgreSQL, WebRTC, OpenAI API

### HikeOn | *Software Design*

Sep 2024 – December 2024

- Created an event planner and safety guide app to assist users in organizing and navigating outdoor events.
- Incorporated weather and safety alerts for real-time guidance.
- Developed user-friendly features for mapping event locations and tracking routes.
- **Tech Stack:** Java, Java Swing, WebRTC, OpenAI API

### Custom Chess visual simulator | *C.R.E.A.T.E. Club*

April 2025 – May 2025

- Developed a custom chessboard simulator that reads a JSON file of previously played games and shows it visually.
- Designed a clean GUI layout with move log display and dynamic piece rendering using Python.
- **Tech Stack:** Python, Tkinter

### Tic-Tac-Toe visual and logic simulator | *C.R.E.A.T.E. Club*

April 2025 – May 2025

- Created a GUI-based Tic Tac Toe game in Python using Tkinter for real-time bot battles.
- Designed a modular game logic system supporting test mode, player-vs-player, and bot-vs-bot interactions.
- Redesigned classic Tic Tac Toe with customizable board sizes beyond 3x3.
- Added visual and functional enhancements to streamline competitive gameplay for multiple bots.
- **Tech Stack:** Python, Tkinter