Vaibhav Gupta

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EDUCATION

University of Toronto Scarborough   Toronto, ON
Honours Bachelor of Science in Computer Science   *Sep. 2023 – Sep. 2027*

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Assembly
Frameworks: React, Node.js, Flask, JUnit, Django, FastAPI
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, PyCharm, IntelliJ, Eclipse
Libraries: TailWindCSS, Tkinter, Cohere, OpenAI, WebRTC, NumPy, BeautifulSoup, Requests

EXPERIENCE

Vice President of Technology — C.R.E.A.T.E. Club   Toronto, ON
University of Toronto Scarborough   *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 execs to streamline project onboarding and support events.

PROJECTS

AI Safety App "SafeOStroll" | *Hack the Valley 9*   November 2024
- Developed an AI-powered app to monitor 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

CREATE 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