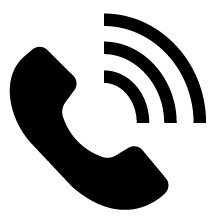
Syed Kaab Surkhi

Bachelor of Computer Engineering

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# EDUCATION

**Bachelor of Engineering in Computer Engineering,** Toronto Metropolitan University *2023 - 2027*

**Relevant Courses:** COE 318 - Software Systems | COE 428 - Engineering Algorithms and Data Structures | COE 528 - Object Oriented Eng Analysis and Design | ELE 404 - Electronic Circuits I | COE 328 - Digital Systems

# TECHNICAL SKILLS

**Programming Skills:** Python, C++, C, C#, MATLAB, Java, MySQL

**Frameworks:** Flask, Node.js, React.js, Tailwind CSS, OpenCV, Websocket, Golang, CLI Tools, PyGTK, Ros2, TCP Connections, Streamlit

**Tools:** AutoCAD, 3D Printing, Electric Circuits, Git, Visual Studio, Firebase, Arduino, NI Multisim, Quartus, NetBeans, Unity, JavaFX

# WORK EXPERIENCE

**Research Practicum Assistant,** Toronto Metropolitan University, May 2024 - Ongoing

* Evaluated 3 international research papers and benchmarked curriculum outlines from over thirteen Canadian universities using toronto.

**pinpointed** key textbooks, culminating in comprehensive recommendations for a redesigned Linear Algebra course structure.

* Collaborated with a professor and a team of 3 assistants to design an impactful teaching plan for a first-year Linear Algebra course using toronto.
* Partnering with organizations to develop an open-source textbook in PreText, transitioning concepts from pre-calculus to advanced university-level mathematics using toronto.

**Network Programming Controls and Web Developer,** [Metropolitan Hyperloop](https://methyperloop.netlify.app/)**,** Sep 2024 – Ongoing

* Collaborated with various operation-teams such as marketing to develop a promotional website, utilizing React.js and Tailwind CSS and designing a multi-tier sponsorship benefit system…
* Built a GUI to display significant readout data when running the pod and connected a central RaspberryPi to the backend of the GUI via…

**Software Developer,** Toronto MetRobotics Oct 2024 – Ongoing

* Implemented a control program for a Robotics Rover, enabling simultaneous component management through a game controller, and transmitting data with the Pysocket and Websocket…
* Developed a GUI for a multi-camera system on the rover with PyGST with the use of TCP Connections and CLI tools for testing using…
* Incorporated dual production pipelines with different methods to efficiently target needs such as faster or smooth streaming using toronto.

# TECHNICAL PROJECTS

[**Inclusee,** Hackthe6ix](https://devpost.com/software/inclusee) | *ReactJS, Adobe-Add-On-SDK, css3, JavaScript* July 2024

* Programmed an Adobe Express Add-On within 36 hours, enhancing design accessibility for users with low vision, dyslexia, and other impairments; currently undergoing review for…
* Incorporating real-time feedback by analyzing colors, fonts, and layouts used with React.js, Javascript, and CSS using toronto.

[**Vireel,** Google Gemini API Developer Competition | Startup](https://github.com/SurkhiSyed/Vireel) | *Flask, Python, ReactJS, TailwindCSS, GeminiAPI, JavaScript* August 2024

* Engineered a news aggregation app, integrating four APIs including Gemini and News API to curate personalized, concise news for users in the Google Gemini…
* Leveraged the React.js framework and Tailwind CSS for the frontend, with Python Flask for the backend, to build a using toronto.

comprehensive full-stack social media app, featuring messaging, liked articles, and genre customization.

[**BetEd,** Snowflake Rag ‘n’ Roll Competition](https://devpost.com/software/project-hk1nfi?ref_content=my-projects-tab&ref_feature=my_projects) | *Streamlit, Python, WebScraping, JavaScript, RAG, TailwindCSS, Firebase, Snowflake* January 2025

* Developed a networking platform for inexperienced tech seekers to collaborate on challenging competitions while being tutored by a using toronto.

**trained learning model** and receiving feedback from professionals at the Snowflake RAG competition.

* Implemented Retrieval Augmented Generation (RAG) for training an AI model with the use of Snowflake database for storing documentation, Mistral LLM for generation, Cortex…

[**BookCartFX**](https://github.com/SurkhiSyed/BookCartFX)[**,**](https://devpost.com/software/project-hk1nfi?ref_content=my-projects-tab&ref_feature=my_projects)| *Java, JavaFX, SceneBuilder, FXML, UML Modeling, Design Patterns, Java GUI* March 2025

* Developed a Bookstore application in JavaFX, implementing secure user authentication, encrypted data storage, and real-time book management functionalities using toronto.
* Collaborated in a team to design and implement system architecture using UML modeling and design patterns, ensuring scalability using toronto.