

# Divyansh Kachchhava

Personal website | 437-981-0507 | divyansh.kachchhava@mail.utoronto.ca | LinkedIn | GitHub | Toronto, Canada

## Education

**University of Toronto - Software Engineering Specialist (co-op)**

Toronto, Canada

*University of Toronto Scholar Award - \$7500 (top 3% students)*

*Sept. 2021 – May 2025*

## Technical Skills

**Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, R

**Frameworks:** Django, NodeJS, React, ReactNative, Bootstrap, Junit, Mockito

**Developer Tools:** GIT, Jupiter, XCode, VS, PyCharm, Eclipse, IntelliJ, Google Cloud platform

**Database:** SQL, Firebase, Azure (IPR)

## Projects

**Course Planner App (view)** | *Java, Kotlin, Firebase, Android Studio, Git, Figma*

Nov 2022 - Dec 2022

- Led a team of 5 developers in creating an app for student course planning, using Java/Kotlin and Android Studio. Utilized Firebase Realtime Database for efficient data management for 100k+ courses and users
- Acted as Scrum Master, overseeing Agile development and utilizing GitHub data to demonstrate collaboration. Achieved 100% contribution marks through effective leadership and management
- Through my commitment to excellence, I ensured thorough unit testing was performed, using popular frameworks such as Mockito and Junit, following a successful refactoring of the code into MVP pattern

**Carbon Cam App (view)** | *Java, Kotlin, Firebase, Android Studio, Heroku, Flask and Tensorflow*

Oct 2022

- Pioneered the development of an innovative Android app, combining Java/Kotlin and UI/UX design to optimize material decomposition time estimation through back-tracking and forward-tracking feature
- Utilized machine learning algorithms, specifically a Support Vector Classification (SVC) model, to train the algorithm on over 700 objects/images. The trained model was hosted on the cloud using Flask and Heroku
- Integrated an API with Postman to facilitate communication between the Android app and the cloud server, resulting in a transfer rate of up to 95-98%. The app leverages machine learning and neural networks.

**System Monitoring Software Tool (view)** | *Shell use, Linux, System calls, Fork and Pipes*

Feb 2023

- Developed a System Monitoring tool to track the performance of any system using a C program. Displays key system metrics such as memory usage, CPU usage, physical and virtual memory, user and session information
- Includes reporting features such as data visualization, custom reports, performance data, and risk analysis. Provides security features such as access control, antivirus and malware management, data backup and recovery
- Enables data-driven insights for better decision-making and helps plan for IT upgrades. Offers multi-device and server monitoring, network monitoring, and remote monitoring with alerts

**Personal Portfolio website (view live)** | *HTML, CSS, JavaScript, SCSS*

Dec 2022 - Jan 2023

- Successfully completed a challenging front-end capstone project as part of the Front-End Web Development course offered by Meta through Coursera to appraise my knowledge and skills to build a professional website

## Leadership Experience

**Computer Science First-year Community Leader**

Sept 2022 – Present

*Leadership position, University of Toronto*

*Scarborough, Canada*

- I made a tremendous impact on the lives of over 330 Computer Science, Math, and Stats first-year students by providing mentorship, support and guidance during their transition to university life
- I acted as a reliable communicator, regularly engaging with the assigned First Year Learning Community both virtually and in-person, and facilitated meetings to help foster a sense of community among my students
- My exceptional mentorship skills and leadership capabilities were exemplified in my ability to mentor 80+ students at a time, providing them with the support and guidance necessary for their academic and personal success
- Overall, I made a positive and lasting impact on the lives of these students, providing them with the tools, resources, and guidance necessary for their academic and personal growth.

## Certifications and Licenses

**Azure Fundamentals by Microsoft at Coursera (view)** AZ-900 Certification Exam (IPR)

**Back-end development by Meta at Coursera (view)** Cloud, API, Database, Django, Bash, Github, Python

**Front-end development by Meta at Coursera (view)** HTML, CSS, JavaScript, React, UI/UX, Version Control