Divyansh Kachchhava

Portfolio 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) — *2021 - 2025*

Technical Skills

Languages: Python, Java, C, C++, HTML, CSS, JavaScript, SQL, R, Shell
Frameworks: Django, NodeJS, React, ReactNative, Bootstrap, Junit, Mockito
Tools: GIT, Jupiter, VS, PyCharm, Eclipse, IntelliJ, Firebase, Linux, Android Studio
Concepts: Agile, Scrum, Jira, OOPs, Design Patterns, SOLID, Data Structures

Projects

Course Planner App (view) | *Java, Firebase, Android Studio, Git, Figma, Agile, Jira* — 2022

- Led a team of 5 developers in creating an app for student course planning, using Java/Kotlin and Android Studio. Implemented 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 team management
- Performed thorough unit testing with 80% coverage, using popular frameworks such as Mockito and Junit, following refactoring of the code into MVP pattern

Carbon Cam App (view) | *Java, Kotlin, Firebase, Android Studio, Flask and Tensorflow* — 2022

- Pioneered the development of an innovative Android app, combining Java/Kotlin and UI/UX design to optimize 90% of the material decomposition time estimation through back-tracking and forward-tracking features
- Created machine learning algorithms, specifically a Support Vector Classification (SVC) model, to train the algorithm on over 700 objects/images. Hosted a trained model 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, Linux, C* — 2022

- Developed a System Monitoring tool to track the performance of any system using a C program with 95% accuracy. Displays key system features such as memory usage, CPU usage, memory, user and session information
- Included reporting 4 crucial 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

Community Building Platform (view) | *Graph Network, Data Structure and Algorithms, C* — 2022

- Developed 'GRAFFIT' social media platform utilizing C's graph network, managing 10k+ connections. Pioneered innovative feature that recommends potential new friends and brands and optimizing user experience

Personal-Portfolio website (view) | *Front-end capstone project* — 2022

- Completed a challenging front-end capstone project as part of the 9-course front-end development series by Meta which comprised of topics covered from web development, React basics and advanced, version control and UI/UX

Leadership Experience

Computer Science First-year Community Leader — 2022 – Present
Leadership position, University of Toronto — *Scarborough, Canada*

- Instigated a tremendous impact on the lives of over 330 Computer Science, Math, and Stats first-year students by providing mentorship, support, and guidance during the transition to university life
- Acted as a reliable communicator, regularly engaging with the assigned First Year Learning Community both virtually and in-person, and facilitate meetings to help foster a sense of community among the students
- Demonstrated exceptional mentorship skills and leadership capabilities by mentoring 80+ students at a time, giving the students full support and guidance necessary for academic and personal success

Certifications and Licenses

Front-End Development Professional Certificate by Meta at Coursera (view)
Completed 9-Courses Certificate including Advance React, HTML, CSS, JavaScript, Version Control and UI/UX Design