

Tapas Rastogi

+1 647 615 2411 ✉ tapas.rastogi@mail.utoronto.ca in linkedin.com/tapas-rastogi github.com/tapasrastogi2411

EDUCATION

Specialist in Computer Science(Co-op) and Major in Statistics

University of Toronto, Scarborough

GPA: 3.15/4.00

09/2019 – 06/2023

Toronto, Canada

SKILLS

Git, | **Languages** (Python, C, Java, Kotlin, HTML, CSS, JavaScript, Angular, React, SQL, NoSQL, Dart, MATLAB, R)

Technologies/Frameworks (Git, OOP, SDLC, Software Design, Agile Scrum Methodology, CI/CD, JIRA, Node.js, Express.js, Maven, MongoDB, RDBMS, Neo4j, REST APIs, JSON, Linux, TDD, Unit Testing, AJAX, NumPy, Matplotlib, Pandas, Flutter, Android Studio, Firebase, VS Code)

PROFESSIONAL EXPERIENCE

Android Mobile Lab Assistant

MADLabs, University of Toronto

05/2021 – present

- Working on the Android app development of an iOS Graduate Student Mental health and wellbeing app from scratch
- Developed new workshops and assisted with the development and testing of Android apps
- Maintained development resources, support material and helped fellow students through peer support

PROJECTS

African Impact Challenge - Community and E-learning Platform

05/2021 – present

- Building a community and E-learning web application platform to be used by African Entrepreneurs in the African Impact challenge
- Working on the Front-end and Back-end of the platform through user stories, product backlogs, CRC Cards, and System design documents, enabling a better understanding of client requirements and the technologies to use
- Used Agile Software Development, SCRUM principles, MVC Architecture, Git and JIRA to develop and manage all the required features of the project coupled with weekly sprints, standups, CI/CD and Git workflow

You First: A Mental Health App

01/2021

- Collaborated with a group of colleagues in a 36-hour hackathon at the University of Waterloo to develop a cross-platform native app using Android Studio, Dart, Java, Kotlin, and the Flutter framework on the Google Firebase platform
- Worked on the front end by developing a simple user interface that gives people free and professional help to deal with stress and ways to improve their mental health, with options to meditate, read positive quotes, and call the suicide hotline number
- Developed a daily built-in notification system which was deployed using the Firebase platform and console

Mock Linux Shell

10/2020 – 12/2020

- Collaborated with a group of classmates to implement a mock shell program using the Agile SCRUM software development process in Java and principles of Object-Oriented Programming
- Implemented and brainstormed various software design choices and patterns to implement CRC cards for well-designed code
- Coordinated all tasks between group members to ensure all stages of the software development process was followed to ensure timely completion of all mock user and client requirements

Decision Trees and Random Forest Classifiers

09/2020

- Worked on the implementation of a Decision Tree and Random Forest Classifiers using Python and NumPy
- Explored real-life uses of machine learning and data mining, by tuning the hyperparameters of implemented models to achieve close to 95% accuracy on binary classification tasks with real-valued sensory inputs
- Used the Amazon Dataset from UCI repository, to predict the author of a review on Amazon, also taking into account the real-life problem of overfitting in implemented machine learning models

Gamseeai - A surveillance App

02/2020

- Collaborated with a group of classmates in a 36-hour hackathon at UTSC to implement a surveillance application using computer vision that can be used to look after your personal belongings in a public space
- Used Python and its important modules to accurately identify any motion proximal to the device and take a photo of the object which caused it
- Set up an effective email notification system using the smtplib module to send a notification to the user of the device alarming them of any suspicious activity by attaching the image taken by the webcam