

RISHABH KUMAR

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OBJECTIVE

- To work at your company, contributing to your organization with my raw and fresh ideas, leading me to the path of becoming a creative professional and helping me to explore myself even further.

FIELDS OF INTEREST

- Android Applications, Material Design, Data Structures, Analysis of Algorithms, Web Application Development

TECHNICAL SKILLS

- **Languages:** C, C++, Java (Proficient), Python, PHP, Perl, HTML5 / CSS3, JavaScript, ARM Assembly
- **Database:** MySQL, Firebase
- **Tools:** Eclipse, Android Studio, Code Blocks, Notepad++, Sublime Text
- **Platforms:** Linux, Windows, Android
- **BaaS:** Firebase
- **User Interface:** Material Design Android, Java Swings

CURRENT PROJECTS

- **Interactive PDF Reading Application**
(Dr. Mukesh Saini, since January'17)
 - Objective: To design an interactive PDF reader in which you will be able to see videos related to this PDF file.
 - You will also get some suggestions related to the PDF via Text Processing and machine learning algorithms. You can also play that video on any screen similar to floating video view.
- **Live Music Collaboration Using UMTS Network**
(Dr. Peter Junghyun Jun, since January'17)
 - Objective: To design and develop an android app which would be used to connect two people together on a UMTS Network and allow them to send audios to create music.
 - It will have the looping capability (as used in real life) over calls, i.e., the users will be able to use the app like a loop pedal, hence creating simultaneous music together, as a collaboration.
- **Stroke App**
(Dr. CK Narayanan, since March'17)
 - Objective: To design and develop an android app which would be used to treat Stroke patient.
 - This app will be used in PGIMER Chandigarh. It will help medical practitioner to treat their Stroke patients in better way. It tells them what to do. When to do via text, pictures & some video tutorials.

COMPLETED PROJECTS

- **Lab Slots Booking - Web Application**
(Guide: Dr. Balwinder Sodhi)
 - This application is intended to serve the purpose of booking lab slots. A user can register on the application for making lab slot bookings. Application is created using Java and AngularJS. Database engine used is MySQL.
 - Got familiarized with AngularJS, Git command line, Git over eclipse, MySQL DBMS.
- **Multi-User Chat Based Application**
(Guide: Mr. Rajesh Bansal, CEO at BCE)
 - Created an chat application using java swings as front-end and used socket programming to make connections.
 - Created an NGO registration system with two types of Login - for administrators and users. Used Java Swings for front-end development and MySQL DBMS as back-end, and connected using JDBC API.

- **MP3 Player with Compositions**

(Guide: Dr. C.K. Narayanan)

- Objective: To develop a Mp3 Player with composition capability on Android Application Platform using Native Development.
- Created a music player in which you could add your "feeling music" over the playing music / song. Moreover you can control the volumes of both background music as well as the song.
- Along with this, a website was created to describe the application created.

- **Android Application based Calculator**

(Guide:Dr. C.K. Narayanan)

- Objective: To develop a well-designed Calculator on Android Platform.
- Created a calculator which gives real time result as you will type the expression it will update the result based on BODMAS rule.
- Also created some personal applications, e.g Photo Gallery App, Firebase Login System, Messaging App using FCM etc.

- **Animations Website**

(Guide:Dr. C.K. Narayanan)

- Created a personal WebPage which had many animations on the website.
- Used HTML5 / CSS3, Javascript and VelocityJS to design the same.

RELEVANT COURSES

- Analysis of Algorithms, Discrete Mathematics and Data Structures, Computer Architecture, Programming Paradigms, Digital Electronics, Introduction to Computing, Probability and Stochastic Processes

EDUCATION

Examination	University	Institute	Year	CPI%
Matriculation /10th:	CBSE	Jawahar Navodaya Vidyalaya (BTI)	2012	8.8
Intermediate /12th:	CBSE	St Kabir Convent Sen. Sec. School	2014	83
B.Tech.	CSE	IIT Ropar	2014-Present	4.97

STRENGTHS

- Having ability to understand and apply new things fast and easily.
- Optimistic Attitude, Hardworking.
- Team work and Leadership qualities (Leader of decoration team for cultural fest and freshers party.)