

Abhilash Rath

<https://abhilashrath.github.io>

Github

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EDUCATION

- **Rajiv Gandhi Institute of Petroleum Technology** Amethi, India
Bachelor of Technology, Chemical Engineering; CPA: 7.52 Aug. 2017 – Present
- **Atomic Energy Central School** Mumbai, India
Intermediate: 88.6% & Matriculation: 90.6% Aug. 2013 – March. 2017

EXPERIENCE

- **Sensen Networks** Hyderabad, India
Android Developer June 2020 - Present
 - **R & D Projects:** Developed prototype android app for detecting motion and showing various stages of image processing involved. Integrated a JNI Method in C for Levenshtien distance algorithm for optimised time complexity.
 - **Gemineye:** Working with a team of enthusiastic developers on 50+ tickets involving some game-changing features and major bug fixes, with the mindset of achieving the impossible.
 - * **Background-Service:** Implemented the capture image feature in controller app.
 - * **Multicamera:** Revamped the connectivity architecture from sockets to local webservice following MVC practices for APIs, implemented various other multicamera supported features.
 - * **Parking Enforcement:** Implemented timelapse, touch-to-focus, auto-focus-region and other ANPR associated features.
 - **Miscellaneous:** Conducted interviews as part of recruitment process, reviewed pull requests ensuring code readability, consistency and maintainability. Got involved in R&D Meetings.
 - **Languages and Technologies:** Android SDK, Bazel, Camera2Api, ORMLite, OpenCV, Object tracking, Handlers and Threads, Volley, JNI, Java, C, PHP.
- **Vizitor** Chandigarh, India
Mobile Developer (Flutter) May 2020 - July 2020
 - **Vizitor Pass:** Developed a newer version of the hybrid Vizitor Pass application with completely new UI/UX and a better architectural approach, from scratch, using Flutter SDK and Dart.
 - * **UI/UX:** Created custom classes for complex ui, integrated various flutter ui libraries and developed multiple screens of Vizitor Pass app based on suggestions from design team.
 - * **Architecture:** Used kiwi as IOC Container for dependency injection, dio as http client and retrofit for type conversion for handling api calls and achieve code consistency and stability. Followed MVVM and Bloc architectural practices.
 - * **Features:** Implemented various existing features with new UI and added attendance and deliveries feature.
- **BindSocial** Mumbai, India
Android Developer May 2019 - July 2019
 - **R & D Projects:** Youtube data aggregation and exploratory data analysis on dataset of size 7 million using python and MongoDB. Wrote a script in python to generate user recommendations using item based collaborative filtering techniques. Built a webscraping tool in python.
 - **BindSocial:** Implemented various features like notification service, user profile dashboard, in-app chat service, user recommendation and match logic etc.
 - **Languages and Technologies:** Android SDK, Firebase realtime database, Firebase cloud messaging, MongoDB, Python, Java

PROJECTS

- **Image Sentiment Retriever:** Android app for retrieving the text sentiments in an Image in audio and visual format.
- **Weather App:** Hybrid application showing weather analytics for next week in an engaging UI using Flutter.
- **Inhibition in N.G Pipeline:** Python script which calculates the inhibition required in natural gas pipeline.
- **Winter School App:** Android Application describing the events and proceedings of Winter School 2019, RGIPT.

PROGRAMMING SKILLS

- **Languages:** Java, Python, Dart, PHP, C, SQL
- **Technologies:** Android, Flutter, MongoDB, OpenCV, Bazel