

Prakhar Agarwal

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EDUCATION

Indian Institute of Technology, Varanasi - IIT (BHU)

Bachelor of Technology in Mechanical Engineering - 9.4 CPI

Varanasi, India

Nov. 2020 – Present

Neehar Meera National Sr. Sec. School

Senior Secondary, CBSE Percentage - 94.8%

Aligarh, India

April. 2018 – March 2020

EXPERIENCE

Google Summer of Code' 21 | *NW.js, WebAssembly, MIDI API, Js, HTML/CSS, SVG* May - August 2021

- Improved the overall usability of Purr Data web app to make it more intuitive to use, improve its stability by fixing many bugs and also improve the UI to better fit the web app. **Work Product**

Bolkar | *Android Developer Intern* Nov 2021 - Jan 2022

- Added Authentication System, Referral and Direct User Journey, Refactor codebase for MVVM architecture
- Integrated Razorpay Payment Gateway, REST API, Firebase SDKs
- Added Screen Share feature using WebRTC Agora SDK

Entwik Studios | *Android, Kotlin, Retrofit, Paytm SDK, Data Binding, OTP Auth, Unity* October 2021

- Integrated Paytm payment service for seamless online payments.
- Added OTP based authentication using SMS Retriever API.
- Integrated Unity with Android app to link the main game with supporting app.
- Added in-app update so that user always gets the latest updates.

PROJECTS

Brain MRI Segmentation | *U-Net, Computer Vision, Convolutional Neural Network, PyTorch* March 2022

- Performs segmentation of fluid-attenuated inversion recovery (FLAIR) abnormality from brain MRI scans
- Segmentation of a 512x512 image takes less than a second on a recent GPU.
- U-Net consists of a contracting path to capture context and a symmetric expanding path that enables precise localization.

Inter IIT Tech Meet 10.0 | *Reactjs, Bootstrap, Recharts, Dropzone, Context API* March 2022

- Built frontend for ISRO's Web-Based Automatic Identification of Solar Bursts in X-RAY Light Curves
- Used Rechart for creating interactive dashboard, and Dropzone for file upload
- Integrated API for displaying results from ML model

Musicify | *Reactjs, Firebase Auth, Firebase Firestore, Cloud Storage, Responsive Design* April 2021

- Developed a Web Platform where users can listen, share and like their favourite songs
- Used Firebase Auth to authenticate users via Google OAuth
- Used Firebase Firestore and Cloud Storage to facilitate storage of user data and songs respectively

Remind Me There | *Android, Geofence API, Kotlin, IntentService, GMaps API* February 2021

- Developed an Android App using Geofencing Client and Google Maps API with Kotlin
- Used Geofence Broadcast Receiver to detect events when the user enters a marked area
- Implemented Notification Manager to send notification with a custom message
- Used Maps API to visualize the coordinates/marked location and stored them using SharedPreferences

OPEN SOURCE

Amahi Android App | *Android, Java, Dagger, REST API, Glide, Retrofit* February 2021

- Improved Amahi's Android app and recieved a **letter of recommendation** from its founder. **Contributions**

ACHIEVEMENTS

- Cleared Google Summer of Code in first year of college
- Qualified KVPY by Govt. of India 2018
- Cleared National Talent Search Examination (NTSE) by Govt. of India 2017
- Secured 1 rank in DebugIt Hackathon conducted by IIT BHU which saw a participation of 120+ teams
- Stood among the top contributors in Hacktoberfest 2021