

Avinav Prasad

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Skills

Languages: C++/C, Dart, Java, Kotlin, JavaScript, Python, HTML/CSS, XML, Bash.

Frameworks & Technologies: Flutter, Firebase, GetX, Provider, Flutter-Web, Hive, ReactJs, NodeJs, ExpressJS, NextJS, Mongoose, TailwindCSS, MaterialUI, MySQL, Figma, Git/GitHub/GitLab, Docker, Kubernetes, Linux.

Publications

Co-author a published research paper titled: “Impact of Hindustani ragas in stress management” and

Published a Book titled: “Stress Management Through Music”

Birla Institute of Technology, Mesra

Apr 2023 – Apr 2024

Completed research under Prof. Soubhik Chakraborty, on the topic: Hindustani Raga Analysis Using Statistical Musicology with Therapeutic Applications for Stress Management. Initiated and programmed “**Musiheal**”, a music app where relevant Raga music will be recommended, based on the symptoms chosen. A profile management feature is generated which provides custom frequency raga level for users having musical background. The application, planned using Flutter, is currently in the prototype stage and is awaiting a patent, backed by Institute. The recommendation model was based on **Perceived Stress Scale (PSS)** and the observations from **paired t-test**.

Work Experience

Flutter Application Developer | TECUDIA, New Delhi (Remote work)

Sept 2023 – Jan 2024

- Collaborated with team on a responsive food ordering and Room/Banquet booking application - ‘Bhojan Order’ for a client.
- Developed 40% of front-end of the whole app, for both the customer and owner side interfaces using Flutter and Dart. State management of the entire app was handled using **GetX** state manager framework.
- Implemented external API and database integration with the UI, along with push notification and many more useful features.

Mobile Application Developer Intern | F SQUARE MEDIA, New Delhi (Remote work)

Mar 2023 – May 2023

- Coordinated with team and launched (before due-time): ‘The Thrift Store’ a fully functional e-commerce platform, for both Android and iOS users; tested the app (both widget & integration) using automated tools like Appium, with testing team.
- Deployed a feature enabling customers to follow merchants and receive updates, statistically increasing merchant engagement by 40% and customer retention by 25%.
- Innovated on-spot custom category creation and enhanced cart component, boosting user experience and reducing cart abandonment rate significantly, which led to increase in average order value of upto 20%, theoretically.

Co-founder and Lead Mobile App Developer | APPARELWALA, Remote

Mar 2022 – Oct 2022

- Converted the idea of a smooth and hassle-free B2B transaction platform to a real-world project, by fabricating UI/UX for mobile and web interfaces, with the designing team and built the app for both online and offline functionalities.
- Created and integrated RESTful APIs with backend development team and managed the database using Firebase console.

Education

Birla Institute of Technology, Mesra

2020 - 2025

Integrated Master of Science in Mathematics and Computing (Current GPA: **8.01**)

Jawahar Vidya Mandir, Shyamali (AISSCE)

2018 - 2019

12th percentage (PCM): 82.40% 10th CGPA: 10.0 / 10.0

Projects

Flutter Chat

- A real time chat application built using **socket.io**, which allows chatting between two endpoints.
- Backend was architected with Node.js, state management was handled using the **provider library** and API requests were done using **Dio** package. The messages sent and received are stored in local storage.

Hisaaber

- This product/app solves the hassle of shopkeepers calculating the total bill amount of the customers.
- Leveraging the power of **Google ML Kit API**, the app scans item-price list that is made by the shopkeeper and calculates the gross price of all the time items in the list and stores for later use. The app is to be published on Play Store.

DevOps Roadmap 2022 (for beginners)

- This app provides a very easy-to-follow and systematic roadmap (guided by Mr. Saiyam Pathak) for beginners starting their journey in DevOps, including tutorial links for each tech-stack needed.
- The app is coded using Java as coding the frontend-logic, and UI is designed using **XML**.

ChitChat

- Created a responsive chatting web application which includes robust authentication, **real-time** chat updates, group chat functionality, and user/group profile management.
- Engineered features like **server-side rendering** and dynamic API routes, improving initial page load speed by up to 60%, also worked on **ISR**. Pusher, Cloudinary, byCrypt and MongoDB are the main tech-stack, apart from framework.
- Employed TailwindCSS for efficient, **responsive** styling, ensuring compatibility across 20+ device types and screen sizes.

Pinterest Clone

- Constructed a comprehensive full-stack Pinterest clone, with **Firebase** as BaaS, which allows to create and share image collections with authentication and profile update features.
- Real-time data syncing with Firestore for profile updates, and managing multiple asynchronous requests were some key features.