

SAGAR PRASAD CHAULAGAIN

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SUMMARY

Computer Engineering student (CGPA 3.83/4.0) and software developer with 5+ years of remote, client-based work building Android/Flutter apps, backend APIs and App Inventor extensions. Experienced in API development and integration, database query optimization, unit testing, debugging and technical documentation. Maintains open-source projects, including an audiobook app with 79+ GitHub stars. Seeking a Software Developer role building and maintaining reliable applications in a team environment.

EDUCATION

Nepal Engineering College, Bhaktapur, Nepal

2021 – 2026

- Bachelor of Engineering, Computer Engineering (CGPA: 3.83/4.0), affiliated to Pokhara University
- **Programming coursework:** Data Structures & Algorithms, OOP (C++/Java), Database Management, Operating Systems, Networks, Software Engineering, Machine Learning, Artificial Intelligence
- **Technical coursework:** Digital Logic, Electronic Devices & Circuits, Microprocessor & Assembly Language, Computer Architecture, Embedded Systems, Digital Signal Analysis & Processing, Data Communication

EMPLOYMENT

Freelance Software Developer (Mobile & Backend)

Self-Employed | 2021 – 2026

- Designed, built and maintain the backend API powering the Mero Audiobook app, and integrated it with the mobile client.
- Optimized database queries and application logic in Mero Audiobook and Aradia to improve app performance.
- Wrote unit tests for application logic and API integrations across multiple projects to keep releases stable.
- Maintain technical documentation, including READMEs and setup/usage guides, for the projects I publish and maintain.
- Debugged and fixed defects in published apps and App Inventor extensions, releasing updates while keeping existing behavior working.
- **Stylora:** Flutter app using MediaPipe to calculate facial proportions to recommend hairstyles, and the Gemini Image API to preview styles on the user's face.
- **FinTools:** Android app with 50+ financial tools, including home/personal/auto EMIs, SIP, FD, RD, GST, tax, and cost-of-living comparisons.
- **DualCalculator:** Calculator app for comparing prices, converting units, and working out fuel costs, tips and savings.
- **InAppBilling:** Published MIT App Inventor extension enabling Google Play in-app billing, widely adopted in the App Inventor community.
- **AdmobExtension:** MIT App Inventor extension for AdMob SDK integration, supporting banner, interstitial and rewarded ad formats.
- **Technologies:** Flutter, Dart, Java, Firebase, MediaPipe, Gemini API, REST APIs, Git

SOFTWARE PROJECTS

Mero Audiobook

- Audiobook mobile app backed by a custom API that I designed and built, with database queries optimized for performance.
- Covered core logic and API integration with unit tests.
- **Utilized:** API Development, Database Query Optimization, Unit Testing

Aradia (github.com/sagarchaulagai/aradia)

- Free, ad-free, open-source audiobook app (79+ GitHub stars) giving access to 20,000+ public domain audiobooks from Librivox via the Archive.org API, with support for playing YouTube videos as audiobooks.
- Features offline downloads, adjustable playback speed, sleep timer, background playback, wishlist, listening history, dark/light mode, in-app updater, and browsing across 20+ languages and genres.
- Optimized database queries and wrote unit tests for core application logic.

- **Utilized:** Dart, Flutter, REST APIs, Bloc, Clean Architecture, Audio Services, Background Services, Unit Testing

DeviceInformation (github.com/oseamiya/DeviceInformation)

- Open-source Android library that exposes hardware and software device metadata (RAM, battery level, OS version and more) as a clean API for Android apps.
- Covered with unit tests and documented for other developers.
- **Utilized:** Java, Android SDK, Unit Testing

iBeacon Simulator (github.com/sagarchaulagai/ibeacon-simulator-windows)

- Windows desktop app (WinUI 3, .NET 8, Windows App SDK) that broadcasts BLE iBeacon advertisement packets with configurable UUID, Major and Minor values, for proximity app testing and development.
- Flutter Android companion app that simulates iBeacon signals with customizable UUID, Major and Minor values.
- **Utilized:** .NET 8, WinUI 3, Dart, Flutter, Bluetooth LE

Stremio Watch Together (github.com/sagarchaulagai/stremio-watch-together)

- Userscript that lets friends watch movies and shows together on the Stremio Web Player, keeping playback controls synced in real time across all participants.
- Host and guest roles, with Firebase Realtime Database handling state sync; installs through Tampermonkey and runs on any device with a supported browser.
- **Utilized:** JavaScript, Firebase Realtime Database, Tampermonkey

SKILLS

Languages (proficient): Dart, Java, C, JavaScript

Platforms & Tools: Git, GitHub, Android Studio, Firebase (Realtime DB, Auth, Firestore), WinUI 3, .NET 8, Flutter SDK

Technical Skills: API Development & Integration, Database Query Optimization, Unit Testing, Debugging, Technical Documentation, Version Control (Git), Open-Source Development, BLE/Bluetooth, Cross-Platform Mobile Development, Client Communication, Remote Freelancing