

Binabh Devkota

Full-stack Developer/ Data Scientist

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Languages: Python, Javascript, HTML, CSS, Dart, Rust, bash, R, Java, C, C++

Frameworks: React, Next, Django, flutter, android, FastApi

Databases: Postgresql, PostGIS, Sqlite, Mysql, MongoDB

Experiences

1. Dasmalab Technologies Pvt. Ltd. [**Full-stack Developer, Nov 2021 - Now**]
 1. NTCC Geoportal [**Django, React, Postgresql, PostGIS**]
 - Developed Geo-enabled Apis in Django and frontend interface in React
 - Increased speed of APIs to serve Administrative polygon boundaries by 10 times by serving Vectortiles instead of GeoJson with help of custom PostGIS Functions
 - Implemented Routing using Graphhopper and Nepal Road data from OpenstreetMaps
 2. Peak Explorer [**NextJs, Strapi**]
 - Developed APIs using Strapi and Frontend interface using NextJs
 - Optimized frontend to increase performance and SEO score to over 90 in lighthouse web vitals by using meta tags, next/image, dynamic imports, SSG and SSR
 3. Songmode [**React, Redux, Django, Postgresql**]
 - Created modified and optimized APIs in Django and consumed API in React frontend.
 - Refactored UI components like Comment Section, Search Bar, theme toggle and subscription section
 - Consumed and optimized Spotify and Youtube API in backend to get required data for songs while preventing rate limiting issue in case of heavy traffic.
 4. Cyclcy [**Flutter**]
 - Optimized distance calculation mechanism by off-loading it from main thread and solved app lag issue.
 - Implemented real time tracking using Google Maps API
 5. QR PRO [**Flutter**]
 - Implemented all the features of the app like offline support, multiple theme, full-text search and multiple types of QR Generation
 6. Fiscall.finance [**React, ReactQuery, AntDesign**]
 - Implemented all features like login, social login, dashboard, charts, dynamic forms with validations.
2. Naxa Pvt. Ltd. [**Full-stack Developer, Apr 2020 - Sep 2021**]
 1. Greenway Nepal [**Flutter**]
 - Implemented location tracking and API calls along with features like social media sharing, calories calculation, cycle ride history, reward points and tracking dashboard.
 2. ZITE [**React, Redux**]

- Implemented dynamic forms, dashboards, task tracking, charts, maps and API calls
- 3. [MHRA](#) [**Android, Java**]
 - Customized ODK collect for field data collection with offline support along with features like biometric login and data filtering.
- 4. [PDRA](#) [**React, D3js, Redux**]
 - Implemented charts using D3Js, PDF generation with Unicode support and bulk generation support, deploy dynamic forms and review submissions, generate summary and reports from collected data.
- 5. [CIVI](#) [**Flutter**]
 - Added group discussion feature in the app and bug fixes

Skills

Deployment: Oracle Cloud, Linux CLI, NGINX, Docker, SSH, SSL, pm2, firebase, Play Console, Git, Github Actions

Testing: Unit tests, Integration tests

Data Science: Data cleaning, Data visualization, Pandas, Hadoop

Project Management: Github, Clickup, JIRA, Sprint planning, Agile Methodology

Miscellaneous: Data structures and algorithms, REST, GraphQL, Web Accessibility, Markdown, GIS

Opensource Contributions

1. [Strapi Seo Plugin](#) [**Javascript**]
 - Added support for long-tail keywords
2. [Flutter Map](#) [**Flutter**]
 - Fixed bug of map interaction while inside listview
3. [Valhalla Webapp](#) [**Javascript, React**]
 - Fixed bug of inconsistent coloring in height graph

Education

- **Masters in Data Science**, School of Mathematical Sciences, Tribhuvan University [Aug 2021 – Oct 2023 (expected)]
- **Bachelors in Engineering**, School of Engineering, Kathmandu University [Aug 2015 – Oct 2019]: **CGPA 3.25**
- **+2 Science HSEB**, Pentagon Intl. College [June 2013 – June 2015]: **68%**

Personal Projects

[Based Cooking](#) [**Flutter**]

[TEC Maps of Nepal](#) [**Python**]

[Simple Gis](#) [**Python**]

[Hangman Pro](#) [**Flutter**]

[Teabox Server](#) [**Rust**]