

Binabh Devkota

Geomatics Engineer/ Full-stack Developer

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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. Ideapreneurnepal Pvt. Ltd. [**Full-stack Developer, Dec 2022 - now**]
 1. Money Mitra Mobile app [**Flutter**]
 - Developed components like offline emi calculators and stock screener
 - Developed Vriddhi module in mobile app with extensive data visualization and forms
 2. Money Mitra Web [**Django, React, NextJS, Postgresql**]
 - Developed data rich frontend for Vriddhi module in moneymitra website using Recharts and D3js for data visualization
2. Dasmalab Technologies Pvt. Ltd. [**Full-stack Developer, Nov 2021 - Dec 2022**]
 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.
 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.
3. 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, 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, 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
4. [Martin Maplibre](#) [Javascript] : Added features to debug page

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]