


Bipin Manandhar

Senior Software Engineer

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Work Experience

Senior Software Engineer

01/2022 - present

Leapfrog Technology Inc.

- Led the team in developing the application.
- Involved in the design and discovery process for the application.
- Directly communicated with clients to gather requirements and discuss the architecture of the application.
- Worked with the DevOps team for infrastructure setup and configured CI/CD.

Software Engineer

01/2020 - 01/2022

Leapfrog Technology Inc.

- Designed, built, and maintained efficient, reusable, and reliable software.
- Designed and developed business logic using REST APIs in Express.js.
- Implemented new software features and maintained existing features.
- Refactored, debugged, tested, and implemented changes to existing applications to meet project requirements.
- Wrote unit tests to maintain code integrity.
- Involved in the design and discovery process for the application to finalize all requirements and designs before starting development.
- Responsible for creating technical specifications and reports for new features.
- Worked on setting up the architecture of the application for both backend and frontend.
- Optimized database queries, reducing response times by 30%.
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- Introduced automated testing, increasing coverage from 45% to 85%.

Associate Software Engineer

09/2018 - 01/2020

Leapfrog Technology Inc.

- Rewrote the file upload and download service in S3 bucket using presigned URLs instead of public file upload.
- Designed database tables for new requirements in collaboration with the Tech Lead.
- Wrote unit tests using RSpec and strictly followed the conventions set in the project.
- Restructured jQuery code to use class definitions instead of haphazardly using `$(".class")` throughout the JS file.
- Optimized database queries, reducing response times from 10s to 1s.

Software Engineer Intern

06/2018 - 09/2018

Leapfrog Technology Inc.

- Learned the structuring of HTML components for writing clearer and more maintainable HTML code.
- Learned the standard way of writing CSS for elements.
- Learned vanilla JS from scratch and created HTML games and simple applications using only Vanilla JS.
- Created a basic post-comment API using Node.js, Express.js, and JWT for authorization.
- Created a frontend application for the post-comment API using React.js and Axios for API calls.
- Learned about state management in React.js using Redux.

Junior RoR developer

06/2018 - 09/2018

FourMB

- Worked on implementing a payment service using the API provided by CommBank of Australia.
- Learned to write test code using RSpec for the payment service.
- Worked on generating invoices in PDF format using the Wicked PDF gem.

Technical Skills

Language and Scripts

Ruby, Javascript, HTML5, CSS3, jQuery

Frameworks and Libraries

Ruby on rails, ExpressJs, Rspec, ReactJs, VueJs, NextJs, Jest, Redux, MVC, PolymerJs, LitElement, Component Library

Database

PostgreSQL, DynamoDB, mongoDB

Infrastructure and tools

Git, Github, Docker, AWS

Methodology and Collaboration

Scrum, JIRA, Slack, Google Chat, JIRA Confluence

Projects

Language Scientific (R3)

- Ruby on rails
- jQuery
- PostgreSQL
- EC2
- sidekiq

R3 is a web application developed by Leapfrog in collaboration with Language Scientific Inc. The application is used for tracking the different stages involved in manual translation of medical documents from one language to other languages by connecting with vendors who will work in the translation of the document.

- Optimized the response time of vendors page from 12 sec to 2 sec using eager loading.
- Added a flow diagram for each project item to show the task status of project at each phase using svg js, adding capability for user to view the project detail from dashboard page.
- Revamped the dashboard page to include all the project steps and information from dashboard with color code for status, and add capability to navigate to particular step from dashboard.
- Write a custom Ck-editor plugin to upload images to s3 bucket or encoding image information or send it as email attachment when composing a mail from Ck-editor, which later will be shown as inline image.
- Remodel the structure of jQuery to use ES6 class for code readability and maintainability of the code.

GWell Clinician Portal

- React
- NodeJs
- ExpressJs
- Redux
- CI/CD
- Docker
- AWS
- MongoDB

GWell is a web application developed by Leapfrog Technologies in collaboration with GWell Inc. The application is used by clinicians for scheduling an appointment with their patients and track down the well being of the patient and show them in the graph for visualization.

- Involved in the Design and Discovery phase of the application and finalize the tech stack to be used.
- Lead the team of 7 people for developing the application and define the conventions to follow during development
- Work on initial project setup and setup the application to use the custom model with mongoose to have common methods for data retrieval maintaining the consistency throughout the application.
- Document all possible API required and possible payloads using openAPI before starting the development, helping the team to know the exact purpose of each API.
- Introduce the facade pattern as the data needs to be stored on multiple store to facilitate the mobile application.
- Added the patient's well being graph to visualize the wellness score of the patient, the data received from mobile application.

Innovaccer Referral Management

- React
- Redux
- CI/CD
- Docker
- AWS
- PostgreSQL
- Django

Innovaccer referral management is a web application developed by Leapfrog Technologies in collaboration with Innovaccer Inc. The application is used to connect or recommend patients to different doctors/specialists in different medical fields, according to the needs of the patients.

- Lead the front end team, and work with team from different geographical location.
- Introduced the Finite state machine implementation as the patient detail page was totally driven by the status of the patient.
- Wrote the gitlab CI/CD to address the deployment to the temporary url, after Pull request is sent.
- Effectively used the design system they had to maintain the design consistency throughout the application.

Aspen Pipeline

- PolymerJS
- LitElement
- CI/CD
- Micronaut Java
- Docker
- PostgreSQL

Aspen Pipeline is a web application aims to provide the scientist involved in drug discovery process with the proper way to manage the information in a systematic way.

- Lead the frontend team.
- Actively involved in the design and discovery(DND) process to gather the requirements and sync with project manager to break the requirements into doable tasks.
- Introduced the concept of design system and add storybook for the components and its documentation.
- Introduced the concept of adding the schema for table to control the sorting, searching, filtering, and custom methods without needing to change the table code, giving developer full capability to customize the table just with props.
- Integrated the feature to create JIRA ticket on support by adding the report issue button on error popup, which directly create JIRA ticket for support with necessary information like URL, error traces, user info, etc

Trayt.Health

- ReactJs
- NodeJs
- ExpressJs
- DynamoDB
- Docker
- PostgreSQL
- AWS
- CI/CD

Trayt is an AI-powered, multifactorial data analytics and clinical decision support platform that expands access to care and help clinics dramatically improve diagnosis and treatment accuracy for patients with neuropsychiatric and medical health conditions.

- Worked with cross functional team to understand the requirement better and prioritize features accordingly.
- Introduced the concept to policy for checking the user access to perform certain action from the route.
- Configured the global error handler with sentry and datadog.
- Made the first responsive page in the app, to show the engagement chart using Nivo chart, which got lots of recognition from Texas & Vermont state.
- Configured the new back-end code to support multi-tenancy using postgresSQL and knex js to store data from different state on different db schema.
- Added a flow chart to the documentation about one of the complex feature in the application, which took me 3-4 working days just to understand that one feature.
- Actively participate in Knowledge sharing sessions.

bharyang

- Open Source

A vs-code extension for sorting the line by its length and grouping the imports to maintain the ladder import structure and make code look visually appealing.

- Define a keyboard shortcut to execute the sorting function in ascending and descending order

litelement-extension

- Open Source

A vs-code extension for providing a snippet defining a class or function for lit-element.

- Added the snippet for adding property, class and function to for developer to write the jsdoc immediately after defining it

dynamodb-dashboard

- Open Source
- VueJS

A web application for view the local and remote dynamodb data.

- Work closely with the author to define the requirements and request features.
- Provider feedback to the author and asked for improvements.
- Requested the feature to restore local database from remote database, with ability to backup specific table.

Education

2018

Dhulikhel, Nepal

Bachelor of Engineering in Computer Engineering

Kathmandu University

2014

Bhaktapur, Nepal

+2 Science

Khwopa Higher Secondary School

2012

Banepa, Nepal

SLC

Gyanjyoti English Secondary School

Languages

Nepali

English

Native

Intermediate

Certifications

AWS

Solution Architect Associate