# CHHATRA BAHADUR RANA

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# Summary

Skilled Full Stack Developer with over 2 years of hands-on experience in web and mobile application development. Proficient in JavaScript, Node.js, C#, .NET, Next.js, and React Native. Adept at building scalable, high-performance applications with clean, maintainable code and delivering seamless user experiences. Passionate about staying updated with emerging technologies and industry trends.

**Strengths:** "Adaptive, Excellent Communication, Team Player, Strong Problem-Solving Skills, Quick Learner."

# Technical Skills

**Languages:** JavaScript, TypeScript, C#

**Libraries and Frameworks:** Dot Net, EFC, React Native, Node JS, Next JS

**Databases:** MongoDB, SQL Server

**Dev Tools:** Visual Studio, Git, Postman, Jira, Slack.

**Testing Tools:** Jest, React Native Testing Library

**Build Tools:** XCode, Android Studio

# Professional Experience

**Aarshia Infotech** Kalanki, Kathmandu

*Dot Net Developer* (Internship) Apr 2024 – Jul 2024

## Responsibilities

* Developed full-stack websites using .NET and jQuery, leveraging Entity Framework Core and SQL Server for efficient data handling.
* Built desktop applications using .NET and Windows Forms, ensuring user-friendly interfaces and robust functionality.
* Contributed to large-scale software projects, including HR management and data management systems, using .NET technologies.
* Gained experience in implementing scalable, maintainable, and secure code while learning various design patterns and best practices.

**BMS Nepal Pvt. Ltd (Contract Basis)** Kalanki, Kathmandu

*Fullstack Developer* Dec 2023 – Jan 2024

## Responsibilities

* Develop Visit Jwalamukhi, A Mobile Application that guides local and foreign tourists to know various places located in Jwalamukhi rural municipality.
* Backend development and management.
* API testing ensuring reliability and performance.
* Utilize modules best suited for performance and reliability.

**NexSewa Pvt.Ltd (Contract Basis) Shankhamul, Kathmandu**

*Fullstack Developer* Jul 2023 – Aug 2023

## Responsibilities

* Developed and managed backend services for the "Visit Panauti" tourism promotion application using Node.js, ensuring scalable and efficient RESTful APIs.
* Configured and managed servers, handled proxy services, and optimized backend performance for seamless functionality.
* Conducted thorough API testing to ensure reliability and performance, using tools like Postman.
* Collaborated with the frontend team to integrate features, such as map integration, places search functionality, and authentication mechanisms.
* Contribute Significant role in Frontend modules and features. Developed following features (Map Integration, Places Placement in Maps, Places Search Functionality, sign in and Signup Design, Google Auth using Firebase, Apple Login, Places card design, Wishlist feature, Gallery).

## CastellTech Pvt. Ltd., Sinamangal, Kathmandu

Backend Developer May 2022 – May 2023

## Responsibilities

* Developed and maintained backend systems using JavaScript and Node.js, ensuring scalable and efficient code.
* Implemented robust authentication mechanisms with JWT and applied various security measures to protect data integrity.
* Designed and optimized APIs to support seamless communication between the backend and frontend systems.
* Ensured code quality through best practices, focusing on performance, maintainability, and security.

# Projects

## Visit Panauti ([App Link](https://play.google.com/store/apps/details?id=com.nexsewa.winedwine&hl=en&gl=US))

* + Managed and contributed to the Panauti Municipality Project, focused on a tourism app development using React Native for both Android and IOS
  + Involved in developing features and functionalities that enriched the tourism experience in the App.

**Testing:** Wrote comprehensive unit tests using Jest to validate critical backend functionalities, including API endpoints, authentication, and database operations. Designed scalable backend code with robust authentication using JWT (access and refresh tokens). Implemented efficient algorithms for location-based services and optimized server and database management. Configured proxies and ensured seamless integration for scalable and secure systems, achieving over 85% code coverage throughout the project.

**Tools:** React Native, Node, Postman, Google API, Expo.

## Visit Jwalamukhi [(App Link)](https://play.google.com/store/apps/details?id=com.bms.jwalamukhimunicipal)

* + Developed a Tourism App for Jwalamukhi Rural Municipality to showcase popular destinations in Jwalamukhi. It was a local government project which was proposed by BMS to the local municipality.
  + Actively involved in enhancing the app's features and functionalities to promote tourism effectively.

**Testing:** Implemented a test-driven development (TDD) approach for backend development using Node.js and Express. Wrote unit tests for new features with Jest, focusing on functionality, including authentication and authorization with JWT. Conducted thorough API testing using Postman to validate endpoints and workflows. Consistently maintained over 80% code coverage throughout the project, ensuring robust and secure backend functionality.

**Tools: Node/Express/Mongo, React Native, Expo**.

# Professional Development

* + Participated in the Naxa hackathon.
  + Took part in the Business Ideation bootcamp, a 7-day workshop by Utsaha Khakurel.
  + Participated in the Hardware Fellowship at IOE organize by Locus 2024.

# Education

**Millennium Secondary school** 2019 – 2021

NEB, Science

GPA: 3.01

## Limkokwing University of Creative Technology, CG Institute of Management

Bachelor (Hons) of Science in Information Technology 2021

# Certifications

* + Data Structures and Algorithms Master Class in Java - **Udemy**
  + Backend Apps with Node JS by IBM **- Coursera**
  + React - The Complete Guideline – **Udemy**

# Achievements and Awards

* + Got into top 5 in ICT awards 2023, representing Dreshion, a product of CastellTech. Dreshion is an AI stylist and smart wardrobe organizer.

# Recommendations

* Raj Shrestha,

HOD at CG Institute of Management

Email: raj.shrestha@cgim.edu.np

* Dr. Bishal Pokharel,

Founder at CastellTech Pvt. Ltd.

Email: bishal.pokharel12@gmail.com

* Samir Kumal,

React Native Developer at Outlines Research and Development

Email: kumalsamir124@gmail.com

* Rupesh Bhatta,

Software Engineer at NexSewa Pvt. Ltd

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* Rishav Karna,

Software Engineer at OnePoint Pvt. Ltd

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