

# UTSAV BARAL

Chyasundol, Kathmandu, Nepal

☎ +977-9865544909 ✉ [utsavbaral007@gmail.com](mailto:utsavbaral007@gmail.com) [in My LinkedIn Profile](#) [My GitHub Profile](#) [My Website](#)

## Profile

---

Frontend developer with a keen eye for detail who has over two years of experience creating user-focused online apps. Interested in using modern development techniques and technology to provide scalable, effective, and user-friendly solutions. Supported by a master's degree in information technology and computer science from Tribhuvan University, I tackle every assignment with a results-driven mindset and great technical expertise.

## Experience

---

### InfoDevelopers Pvt. Ltd.

June 2021 – October 2021

UI/UX Engineer

Lalitpur, Nepal

- Developed responsive user interfaces for Corporate Pay and ConnectIPS using React.js, adhering to BEM methodology and ensuring cross-browser compatibility.
- Built user interfaces and web application for Ministry of Federal Affairs and General Administration (React.js).
- Developed user interfaces and web application for Government Integrated Office Management System (React.js).
- Involved in designing and development of user interfaces and web application for the digital lending system (Rapi Money), website and dashboard of the Nepal Police, Ministry of Health, Ministry of Land Reform and Management, and Sanima Bank Limited's subsidiary using Vue.js and React.js.

### Prismasoftware

Oct 2020 – June 2021

Software Developer

Kathmandu, Nepal

- Developed a real estate website using React.js, Node.js and Firebase.
- Developed a Customer Data Management Web App for convenient tracking of customer and products using React.js, Node.js and Firebase.
- Involved in designing, development and maintenance of the then working company's website, Prismasoftware, using React.js and Node.js.
- Mentored interns on the basics of React.js and responsive web design.

### Learngaroo Learning

June 2020 – Sept. 2020

Frontend Developer

Kathmandu, Nepal

- Internship at Learngaroo Learning.
- Built REST API using Flask.
- Used AWS services such as S3 bucket and Transcribe.
- Designed and developed the then working company's website, Learngaroo, homepage using HTML, CSS, and JavaScript.

### Incwell Venture Pvt. Ltd.

May 2019 – May 2020

Bootcamp, Intern, Software Developer

Lalitpur, Nepal

- Contributed to the development and maintenance of in-house project, Leave Management System (LMS) developed using React.js.
- Developed Black Forest website using HTML, CSS and JS.
- Received hands-on training in web development technologies, including React.js and Node.js.

## Education

---

### Central Department of Computer Science and Information Technology, TU

Oct. 2021 – July 2024

Master of Science in Computer Science and Information Technology

Kathmandu, Nepal

### Himalaya College of Engineering, TU

Nov. 2014 – Aug. 2018

Bachelors of Science in Computer Science and Information Technology

Lalitpur, Nepal

## Projects

---

### Portfolio Website | *Next.js, Nodemailer, MongoDB, NextAuth*

August 2024 – Present

- Developed a responsive personal portfolio website leveraging Next.js for server-side rendering and dynamic routing, ensuring fast load times and enhanced SEO performance.
- Used MongoDB as the database solution for storing user details, ensuring efficient data management and seamless integration with Next.js APIs.
- Implemented secure user authentication using NextAuth, enabling login and register functionality and ensuring data privacy through token-based authentication.
- Integrated Nodemailer for automated email services, allowing users to send inquiries directly from the contact form with error-handling.

### Automatic Number Plate Detection System | *Python, Tensorflow, Keras*

December 2023 – July 2024

- Developed an Automatic Number Plate Recognition (ANPR) system using Convolutional Neural Networks (CNNs).
- Conducted a comparative analysis of deep learning models, including VGG19 and ResNet50, to evaluate their performance in terms of accuracy, speed, and resource efficiency for number plate recognition tasks.
- Integrated YOLOv8 (You Only Look Once) for precise and real-time detection of number plates, achieving robust plate extraction even in diverse lighting and environmental conditions.

### Social Media Photo Sharing Web App | *MERN Stack*

June 2020 – July 2020

- Developed a dynamic photo-sharing platform using the MERN stack, enabling users to upload, share, and view photos seamlessly in a social media-like interface.
- Implemented frontend functionality with React.js, incorporating reusable components, responsive design, and a clean user interface to ensure a smooth user experience.
- Built a efficient backend API with Node.js and Express.js, handling user authentication and data management.
- Cloud-based image and video management service, Cloudinary, was used for storing the images.
- Used JWT (JSON Web Token) for secure authentication, enabling users to log in, register, and maintain session integrity across multiple devices.
- Implemented state management through React Context API, simplifying the handling of application-wide state such as user sessions and app settings.

### COVID-19 Tracker | *React.js, Chart.js, Leaflet*

January 2021 – February 2021

- Developed a comprehensive COVID-19 Tracker web application using React.js, providing real-time updates on pandemic statistics globally and locally.
- Integrated the disease.sh - Open Disease Data API to fetch accurate, up-to-date pandemic data, ensuring seamless synchronization with global health updates.
- Leveraged Chart.js to create interactive and visually appealing data visualizations, including line charts and bar graphs, for tracking trends in cases, recoveries, and deaths.
- Integrated Leaflet, an open-source mapping library, to display geographical data visually by plotting country-specific COVID-19 statistics on an interactive world map.

### E-commerce web app UI | *React.js, SCSS, Bootstrap*

March 2022 – March 2022

- Developed an e-commerce website UI using React.js, Bootstrap, and SASS.

## Technical Skills

---

**Frontend Development:** HTML5, JavaScript(ES6), React.js, Next.js

**State Management:** Redux (including Redux Toolkit), Context API

**Styling:** CSS3, SCSS, Tailwind CSS, Bootstrap, Ant Design

**Backend Development:** Next.js, REST API

**Tools and Methodologies:** Git, BEM Methodology, Responsive Web Design