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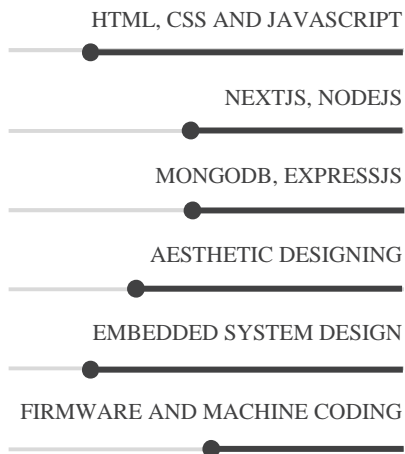
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DETAILS

Date of Birth
April 12th, 1998

Driving License
Yes

PRO. SKILLS



QUALITIES AND SKILLS

QUALITIES

Technologically competent
Diligent and organized
Willingness to Learn
Attention to details
Flexible, Honest and Creative
Excellent time management

SKILLS

Fashion Modelling
Can Build Robots
Chat GPT and Googling
Drone Piloting

KAPALIK KHANAL

Web Developer and Embedded System Engineer

SUMMARY

Transitioning professional with a background in embedded systems engineering, now venturing into the world of web development. Eager to apply my problem-solving skills and technical knowledge to create exceptional web solutions. Enthusiastic about clean coding, innovative design, and user-focused experiences. Committed to mastering web technologies and collaborating with like-minded individuals to shape the future of the web.

PROJECTS

RESUMORA – A Free Resume Builder

Resumora aims to simplify the resume-building process, providing users with templates, guidance, and customization options to effectively showcase their skills, experiences, and qualifications to potential employers.

Real Time Chat Application

A real-time live chat application built using Socket.io, Node.js, Express, Redux, Next.js, and various other libraries. This chat application offers a modern and user-friendly chat experience, complete with features such as emoji support and real-time scrolling.

TRDM – The Real Dark Mode

TRDM is a fun and unique project that transforms your screen into a game where a black overlay exists, and only a portion around your mouse cursor is visible. Within this dark overlay, you can play a simple maze game. This project is built using libraries such as Chakra UI, jQuery, Tailwind CSS, and more.

CRUD Note Application

A simple CRUD (Create, Read, Update, Delete) Note application built using Redux, Redux Persist, Next.js, and Chakra UI. This application allows users to create, view, edit, and delete notes while preserving the state of their notes even after closing the application.

Calculator

A simple calculator web application built with React JavaScript that performs basic arithmetic operations (addition, subtraction, multiplication, division) with features like clear display, backspaces, etc.

EDUCATION

Bachelor in Electronics and Communication Engineering

Thapathali Campus, Kathmandu

2016 - 2022

ACHIEVEMENTS

- ❖ Finalist of **Mister Nepal World 2022**
- ❖ **JENESSYS 2019** delegates and ambassadors (**Japan, Tokyo**)
- ❖ The **eKantipur** newspaper published an article on me.
- ❖ RU at International Robotics Competition 2019, IIT, Mumbai, India
- ❖ Winner at International Robotics Competition 2020, IIT, Mumbai, India

What do I know about Web Development?

REACT

- React Core Concepts [Architecture, Fundamental principles and purposes],
- React Frameworks [Next.js, create-react-app],
- Styling CSS and Libraries [Tailwind CSS, Styled Components, Emotion],
- UI Kits [Material UI, Bootstrap, Chakra UI, AnimeJS],
- Advance form handling library like Formik,
- Client-side form validation libraries [Yup, Joi],
- Axios is a library for making API requests in the client-side,
- Global state management using Redux,
- Redux middleware like Redux Persist and Logger,
- External Services [Google Maps, OpenAI ChatGPT],
- Client-Side Socket Handling using Socket.IO,
- PDF tools [React-PDF, Docxtemplater, Jspdf, Puppeteer, pdfkit],
- React based Libraries [Zoom-pan-pinch, Quill, Drag and Drop, scroll-to-bottom, emoji-mart, tsparticles, etc],
- JS Emailing Libraries like EmailJS, Nodemailer.

NODE JS

- Node Core Concepts [V8 Engine, Asynchronous I/O, NPM, Modules, Streams, CORs, Error Handling, etc],
- Node JS Core Features [FS, Path, Crypto, etc]
- Frameworks [Express JS],
- Encryption library like bcrypt,
- JSON Web Tokens (**JWT**) for authorization and user authentication,
- Custom middlewares,
- Multer as middleware for handling file and image uploads,
- NoSQL databases like MongoDB and Mongoose ODM,
- Handling bi-directional real-time communication over web sockets using Socket.IO.

OTHER TOOLS AND APPLICATIONS

OS: Windows, Linux

IDE: VS-Code, Sublime, Notepad ++,

Tools: Postman, MongoDB Compass, Putty, etc.

PROJECTS as an Embedded System Engineer

- Visualizing Atoms:** Used C++ to create visual representations of atoms based on their atomic numbers, making the tiny world of atoms easier to understand.
- Dendrometer Sensor:** Worked on an Australian company to create a dendrometer sensors that is being tested and shipped around the world to measure tree growth, connecting nature lovers worldwide.
- IoT Projects:** Made it possible to control appliances from anywhere using IoT technology, giving you remote control over your devices.
- Satellite:** Worked on a miniature model of satellite as a Major Project for Final Year of Engineering for data communication, satellite imaging and analyzations using MATLAB..
- Robot Opponent Detection:** Used Python and OpenCV to program robots to spot and compete against opponents in thrilling robot fights.
- Gym Attendance Systems:** Created a system for tracking gym attendance using biometrics and cards, making the gym attendance experience more efficient.
- Streamlined Ordering and Payments through POD:** Developed a system for easy ordering, payment, and account management in places like restaurants and hospitals.
- Agricultural Drones:** Designed drones for farming and land surveying, making it easier to manage crops and collect data.
- Medication-Serving Robots:** Built robots to safely deliver medications during pandemic, helping patient without human contact.
- 3D Printing:** Exploring the world of 3D printing and product design, creating custom projects and prototypes.
- Disaster Response and Wildlife Detection:** Worked on projects related to disaster response and wildlife monitoring, contributing to safety and conservation.
- And ever-growing list of interesting and diverse projects, each with its own unique story and impact.*

REFERENCES

Roshan Bhatta
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