

SAURAV BHANDARI

Full Stack Software Engineer

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EXPERIENCE

Full Stack Developer

MSH Americas - Diot-Siaci Group

March 2023 – Present Toronto, ON

- Developed and maintained scalable and efficient web app using Laravel and React, resulting in a 20% increase in overall system performance.
- Leveraged Docker Compose for seamless orchestration of dev environments, fostering team collaboration, and reducing setup time by 40%.
- Implemented Laravel Redis caching and React's memoization, leading to a 50% reduction in both database calls and server response time.
- Optimized frontend rendering and reduced database queries by 15% through effective use of Laravel's Eloquent ORM.

Frontend and React Native Developer

Deerhold Ltd.

September 2021 – March 2023 Lexington, MA

- Developed over 50 user-facing features using React, including work on the Kiosk portal.
- Enhanced the Kiosk portal functionality by integrating readings from BP meters and weight scales for accurate health metric recording.
- Implemented testing best practices using Jest and Enzyme, resulting in 95% coverage, reducing bugs in production by 40%.
- Implemented a microservice-based URL shortening service, resulting in improved scalability and increased efficiency in managing shortened links.
- Utilized React Native to build a mobile app that seamlessly presents the readings taken on the Kiosk portal.

Associate Software Engineer

DEERHOLD NEPAL Pvt. Ltd.

July 2020 – May 2021 Kathmandu, Nepal

- Redesigned user experience and rebuilt Laravel application using React 16 and Redux, resulting in the release of beta within 10 months.
- Implemented Middleware, Redux-Promise in the application, resulting in 25% faster data retrieval and 20% fewer server calls.
- Created an offline version of a learning platform resulting in 40% increase in user engagement in remote areas.
- Developed RESTful Express Web API endpoints tailored for seamless integration with mobile applications.

Software Development | Intern

DEERWALK COMPWARE LTD.

Jan 2019 – July 2020 Kathmandu, Nepal

- Implemented a Grails-based application for the client, resulting in a 30% increase in data management efficiency and a 20% reduction in administrative tasks for the *Brain Frequency Center*.
- Developed an E-commerce site based on Grails and MongoDB that achieved a 30% increase in web traffic.
- Implemented REST API for CRUD operations, resulting in a 25% increase in data processing speed and a 50% reduction in errors.
- Developed and implemented features with React 16 resulting in improved user engagement and retention on the online learning platform. *dlc.dwit.edu.np*

EDUCATION / COURSES

Post Graduate – Project Management in IT

Seneca College

May 2022 – December 2022 Newnham Campus

Post Graduate – Business Analytics

Seneca College

May 2021 – December 2021 Newnham Campus

SKILLS

React, React Native, Redux, Typescript, Angular, Vue, Node, Express, Firebase, Python, Grails, Java, C#, ASP.NET, IOT, Laravel, JavaScript, PHP, AWS, MongoDB, Git, JSON, JIRA, Restful API

INVOLVEMENT / LEADERSHIP

- Taught Full Semester non-credit courses, C-Programming - First Semester, PHP - Second Semester and Web Design - 3rd Semester in DWIT College.
- Organized Google Cloud Next 18 Extended - 2018
- President, DWIT Software Club. 2017 - 2018
- Vice President, DWIT Software Club. 2016 - 2017

WORKSHOP / TRAINING

- Grand Workshop on Kickstart to AI and Machine Learning - May, 2018
- Google Cloud Next '18 Extended
- R Programming - 2018
- Basics of Elasticsearch - 2018
- Intro to Laravel - 2017
- Power Workshop on AngularJS - 2017

PROJECTS

Walmart Retail Sales | Data Visualization

- Led my team in analyzing and visualizing Walmart's sales data from the past decade to glean meaningful insights. *Tableau Public URL*
- Identified potential investment opportunities in the retail industry based on our analysis.

Eye Driven Wheelchair for Quadriplegics Using Circular Hough Transform | IOT Based Project

- Built an eye-driven wheelchair prototype where people who are suffering from quadriplegia can operate the wheelchair on their own based on their eye movements.
- A WiFi Module to send the data from the software to the microcontroller that controls the wheelchair.

Automated Door Access Control System Using Principal Component Analysis

- Built an Arduino-based Door Mechanism for the demonstration of the Application.
- Implemented HAAR Cascade Classifier and Principal Component Analysis algorithm to create a model of the face.
- The application detects a face in a frame which in turn is recognized, if the face is identified then the app sends a digital signal to the door causing it to open for a while.

Smart Waste Management System | IOT Based Project

- Implemented Waste Management System with Ultrasonic and gas sensors for real-time data collection.
- Developed a web application for waste data visualization and automatic notifications upon reaching full capacity, utilizing Firebase for efficient data storage.
- Developer an Android app using React Native for real-time truck driver tracking, leveraging Firebase for secure and scalable data management.