SANDEEP MAHARJAN

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Linkedin | Portfolio | Github

EDUCATION

University of Nevada Las Vegas   Graduated: **May 2024**

Master of Science in Computer Science

Thesis: Triangulation Guided High Clearance Collision-free Paths (Advisor: Dr. Laxmi Gewali)

TECHNICAL SKILLS

Languages: **Proficient**: C, C++, NodeJS, ExpressJS, PHP, ASP.NET MVC

                  Familiar: Python, ReactJs, Java, Go, Javascript, CodeIgniter, Laravel, Html, CSS, Flutter, TypeScript

Tools and Technologies: Visual Studio, PyTorch, Scikit-learn, GIT, Pandas, Numpy, Bootstrap, SQL, MongoDB, Microsoft SQL Server, PostgreSQL, matplotlib, LaTex, WebAPI, Tensorflow, Keras, IaaS, GIT, Gitlab, AWS, DigitalOcean, Docker, Apache, NGINX, JWT, Firebase, Postman, Socket.io

WORK EXPERIENCE

Graduate Teaching Assistant   **August 2022 - May 2024**

- Tutored and guided undergraduate students on courses Data Structures and Algorithm Analysis, Automata and Formal Languages, and Introduction to Machine Learning for 4 consecutive semesters.
- Demonstrated coding to a class of 20 to 25, proctored quizzes and more than 10 exams for undergraduate students during the Fall.

Full Stack Software Engineer at Smart Tech Nepal Pvt. Ltd.   **November 2017 - July 2022**

- Developed and maintained client and server-side applications (MERN), resulting in improved system performance and scalability.
- Designed and managed databases, primarily MongoDB, ensuring data integrity and optimal performance.
- Collaborated with a cross-functional team of five to design and implement RESTful APIs and integrate third-party services with ExpressJS.
- Improved code quality and maintainability through unit testing and code reviews.
- Deployed the application on a cloud hosting platform, ensuring its availability and reliability.

Software Engineer Intern at Bigfoot Infotech Pvt. Ltd.   **December 2016 - May 2017**

- Collaborated closely with more experienced engineers to comprehend and resolve problems with NodeJS apps.
- Documented the code, APIs, and any relevant processes to facilitate knowledge sharing within the team.
- Recognized and used middleware, request/response handling, and API endpoints.
- Took part in training programs to improve the knowledge of best practices for NodeJS development.
- Effectively communicated within the team, giving updates on your development and asking for help as required.

Co-founder and Software Engineer at Walkman by Green Coins   **September 2018 - July 2020**

- Developed front-end and back-end (MERN) for the Android mobile application Walkman Green Coins.
- Among more than 400 Nepali and Indian startups, one of the finalists at Connect [IN] - 2nd International Entrepreneurship Conclave.
- One of the top 5 finalists out of more than 200 applications for all categories in the ICT Award 2019 - The Biggest Tech Award Of Nepal's Startup ICT Award Category.
- One of the top 100 concepts in the climate and environment category of the Kathmandu Metropolitan City's Smart Urban Technology Challenge 2018 and among more than 150 applications, one of the finalists in Youth Co:Lab Nepal II.

ACHIEVEMENTS

Microsoft Certified Professional   **February 9, 2014**

Microsoft Specialist Server virtualization with Windows Server Hyper-V and System Center Specialist   **February 9, 2014**

PROJECTS

- Developed the frontend and backend(MERN) for the InksVilla (Tattoo House Nepal) mobile application.
  - Startup World Cup Nepal 2022 Regional Winner
- Developed AgroNepal (PHP) for a minor project, a web-based interactive platform that allows farmers to buy and sell goods.
- Developed a web-based application, Decision Support System for Human Resource Management (Asp.net MVC), as a major project, to help managerial decision-making.
- Developed a web-based application, Muli Pariwar Lagat (ASP.NET MVC, Microsoft SQL Server), to store and view records with charts of demographic information for villages, including a PDF file viewer for paper records (transforming paper-based records into digital format).
- Developed C++ project Employee Management System which is a menu driven program which allows to add, update, delete and search records of employees working in an organization.
- Utilizing an Arduino Uno microcontroller and sensors like ultrasonic and light sensors in a wristband, we prompted children to wash their hands after using the toilet. Introducing their beloved cartoon characters served as a reminder until the task was completed, addressing our challenge of encouraging hand hygiene. (Wearables appathon organized by Microsoft Innovation Center Nepal)