

SANDEEP MAHARJAN

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[Linkedin](#) | [Portfolio](#) | [Github](#)

EDUCATION

University of Nevada Las Vegas

August 2022 - May 2024

Master of Science in Computer Science

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

Presented thesis paper (#4460 - General Track) at [ITNG 2024](#) (21st International Conference on Information Technology: New Generations).

TECHNICAL SKILLS

Languages: Proficient: C, C++, NodeJS, ExpressJS, PHP, ASP.NET MVC, Java, Python, ReactJs

Familiar: 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, WCF services, Asp.net LINQ

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.
- Trained and facilitated 10 newcomers in the team.
- Collaborated with a cross-functional team of 5 to design and implement RESTful APIs and integrate third-party services with ExpressJS.
- Built an exceptional and dynamic staff of software developers and engineers, which greatly increased the organization's overall success.
- Updated interfaces, added new features, fixed coding problems, and enhanced overall efficiency of the old product.
- Prepared thorough reports on team activities, progress, and recognized disputes as well as revisions to project specifications.

Backend Software Engineer at Bigfoot Infotech Pvt. Ltd.

December 2015 - 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.
- Implemented middleware components for request processing and collaborated with frontend developers, designers, and stakeholders.
- Improved the old product's overall performance, added new functionality, corrected coding issues, and updated interfaces.
- Stayed updated with the latest trends and technologies in backend development.

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](#) , [Microsoft Specialist](#) (Server virtualization with Windows Server Hyper-V and System Center Specialist) **February 9, 2014**

PROJECTS

- Developed a Java application for [Reverse Engineering GeoGebra](#), allowing users to add/remove points, lines, and polygons on a 2D plane. This project includes a menu bar, drawing canvas, and control panel, and can read and write files to and from [GeoGebra.org](#).
- 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 with a product recommendation system.
- Developed a web-based application, [Decision Support System for Human Resource Management](#) (ASP.NET MVC, Entity Framework, Microsoft SQL Server), as a major project, to help managerial decision-making.
- Developed a web-based application, [Muli Pariwar Lagat](#) (ASP.NET MVC, Entity Framework, Microsoft SQL Server/MySQL), to store and view records with charts of demographic information for villages, including a PDF file viewer for paper records (transforming paper-based records to 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.