

# Ishan Dahal

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## Education

### University of Michigan-Dearborn | Dearborn, MI

Expected: April, 2024

Masters in Computer and Information Science (est. GPA: 3.8)

**Relevant Coursework:** Software Engineering, Advanced OS, Computer Network, Database, AI

### St. Xavier's College | Kathmandu, Nepal

April, 2020

Bachelor in Computer and Information Science (GPA: 3.5)

## Professional Experience

### SeeLogic International (The Dogma Group), Kathmandu, Nepal

Software Developer

September 2021-July 2022

- Developed scalable and reusable front-end components for multiple projects using React, Tailwind CSS, and HTML, resulting in increased efficiency and improved user experience.
- Led the team of two interns in implementing the routing and tracking feature in google maps using Leaflet JavaScript and also integrated domain-specified API's in e-commerce web applications.
- Collaborated with designers, and stakeholders in refactoring UI/UX of the e-commerce web application to make the interface attractive and interactive, increasing the user count by 200%.

### InfoDevelopers Pvt. Ltd., Kathmandu, Nepal

Junior Software Engineer

June 2020 - August 2021

- Engineered a front-end component of web portal application of Nepal Government, having more than 15 main modules, which digitized the vehicle registration process in Province-1 of Nepal by 80%.
- Implemented Role-Based Access Control (RBAC) features using high-order components, image processing and manipulation using html canvas and three.js in a web portal system.

### Treeleaf Technologies Pvt. Ltd., Lalitpur, Nepal

Frontend Intern

June 2019 - September 2019

- Inspected and executed the front-end code optimization and refactoring in the deployed software application, resulting in increased efficiency and improved user experience.
- Designed UI/UX of software products, including brochures and flyers for marketing, using Adobe XD, Figma, and other design tools, that effectively illustrated the software's features and benefits.

## Technical Skills

- |             |                               |              |               |
|-------------|-------------------------------|--------------|---------------|
| • HTML5/CSS | • JavaScript (vanilla, React) | • Git        | • Figma       |
| • Python    | • SQL(PostgreSQL)             | • Typescript | • Cloud (GCP) |

## Academic Project

- **UMD Shuttle Service:** Designed, developed and deployed the database and front-end of the mobile application using PostgreSQL, React Native, HTML, Tailwind CSS, to digitize the shuttle service of University of Michigan-Dearborn.
- **Video Analytics Solution:** Worked with GCP services, mainly with dataflow, video intelligence API, big query, and gradle to develop solutions capable of efficient processing, analysis, and management of video data.
- **Query Optimization on IMDB dataset:** Identified and implemented various query optimization techniques on IMDB dataset, achieving 12% improvement in execution time of the query.

## Campus Involvement and social activities

- **SI(Supplement Instruction) Leader/ Tutor (2022-Present):** Facilitating the undergraduate students of University of Michigan-Dearborn in courses like Digital System, Object-Oriented Programming as a tutor.
- Organized the digital literacy program and set up library, computer labs in schools situated in the rural part of Nepal, in 2016 and 2018.
- Volunteered in organizing a "Quiz Contest" for HISA (Humanity is Still Alive), for raising funds for orphans.