**BDM 1034 - Application Design for Big Data**

**Lab1**

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**Submitted to: Prof. Teresa Zhu**

Here are the list of the projects/experience I have worked in my past along with the tools, language, descriptions, and achievements**.**

**Devops Engineer for Tender management Web Application** (January 2021 - August 2021) <https://react.tenderbuild.com.au/>

[Web Application to manage Construction project starting from tender to all the way to payments]

Role: Devops Engineer, Backend Developer

Tools: Jira, Miro, Pm2, AWS ec2, Nodejs, MongoDB, Postman, Git

Responsibilities:

* Build, deploy and maintain production infrastructure and services
* Deploy updates and fixes
* Monitoring, troubleshooting and capacity planning of cloud platforms
* Implement automation tools and frameworks (CI/CD pipelines)
* Develop/maintain processes, tools, and documentation

**Data Engineer for Nepal Railway Recruit**

<http://www.dorw.gov.np/>

[ Railway Recruit was the project designed to hire the manpower required to operate the railway by Government of Nepal]

Role: Data Engineer

Tools: SQL, Python, Git

Responsibilities:

* Validate the application data using SQL and python
* Validation would mostly rely on the presence and absence of required document their readability
* Prepare the data of the applicants who have submitted all the relevant documents and uploaded the payment slip.

**Django/Flask Developer for Hotel Booking Application** https://gobuddygoo.com/

Roles: Django/Flask Developer

Tools: Django, Flask, SQL, Aapanel, Heroku, Mongo, Apache Airflow, Postman, Git

Responsibilities

* Database Design and Development
* User Interface Development
* API Testing and Development
* Versioning and Update Release

**Database And API developer for National COVID APP** <https://covid19.mohp.gov.np/>

[Hamro Swasthya is an official news web and mobile application portal designed and developed during global pandemic COVID-19]

Tools: SQL, Draw.io, PhpMyAdmin, Django, Postman, Git

Responsibilities:

* Entity relationship modeling
* Design Database to reflect the user interface
* Updates and changes in Database
* API Testing and development

**Database and API developer for National news site** <https://gorkhapatraonline.com/>

[ Gorkhapatra is the national news site owned and regulated by government of Nepal]

Role: Database and API developer

Tools: SQL, Draw.io, phpMyAdmin, Laravel, Postman, Git

Responsibilities:

* Entity relationship modeling
* Design Database to reflect the user interface
* Updates and changes in Database
* API Testing and development

**Achievements**

**Jury Mention ICT AWARD (2020)**

This award was granted to Hamro Swasthya (official Covid 19 App by Ministry of health and population). Hamro Swasthya is a crisis management web and mobile portal to disseminate information regarding the Covid -19 victims.

**Contribution: Database Design and Maintenance.**

The FR. Charles A law S.J. Memorial Award (2018) St. Xavier’s College Maitighar

For Excellence in Social and Environmental Responsibility.