BIGYAN KARKI

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EDUCATION

University of Alberta, Alberta, Canada *2020 - 2022*
Thesis-based MSc in Computing Science

Caldwell University, New Jersey, USA *2016 - 2020*
B.S in Computer Science and B.A in Mathematics, GPA: 3.81/4.0
Departmental Honors in CS, DAAD RISE scholar, Presidential scholar, Freshman Recognition Award

WORK EXPERIENCE

Graduate Teaching Assistant, University of Alberta August 2021 - present
· Designed, taught, and graded labs for CMPUT 404 web application and architecture course.

Research Intern, Munich University of Applied Science, Germany May 2019 - August 2019
· Worked at Computer Graphics Lab to develop a virtual environment, *advised by Mr. Markus Miller.*
· Created test dataset of real and virtual images to determine the light direction in a real scene.
· Evaluated the effect of Error Correction Code in GPU-VRAM during the training of Neural Networks.

Jenzabar Technology Intern, Jenzabar Inc. May 2018 - August 2018
· Integrated form workflow to the university student portal that went to serve four thousand students.
· Wrote a service which used Mysql to fetch data to pre-populate forms.

PROJECTS

Neex Portfolio Mobile Application, (https://neexportfolio.com/) Fall 2020-
· Designed and built a portfolio tracking mobile application for Nepal Stock Exchange (NEPSE).
· Built API server with NodeJs, and cross-platofrom mobile application using React Native.
· Currently in internal testing, and pre-registration open in Google Play.

HazelNut Mobile Application, (defunct) Spring 2019
· Involved in building micro-services using Node.js for RESTful API service and referral service.
· Worked on the front-end team to build the user interface that is currently used in production.

Caldwell University Chatbot, (https://cougarbot-site.herokuapp.com/) Summer 2018
· Led a team to build a messenger bot with natural language processing and homework reminder feature.
· Users are able to get current library hours, scholarship information, emergency notice, admissions information, college events, and homework reminder alerts.

SKILLS

Programming Languages: Python, C++, JavaScript, Java, R, PHP

Technologies: NodeJS, React, React Native, Tensorflow, MySql, Git, Flask