

BIGYAN KARKI

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EDUCATION

University of Alberta, Alberta, Canada

2020 - 2022

Thesis-based MSc in Computing Science

Research interest in reinforcement learning, deep learning and games

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-platform 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