

BIGYAN KARKI

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EDUCATION

Caldwell University, Caldwell, New Jersey 2016 - 2020
B.S in Computer Science and B.A in Mathematics, GPA: 3.78/4.0
DAAD RISE scholar, Presidential scholar, Freshman Recognition Award

WORK EXPERIENCE

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

HazelNut Mobile Application, (<https://gethazelnut.com/>) 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.

Behavioral Cloning Summer 2019

- Implemented NVIDIA end-to-end network architecture to drive autonomous vehicles in simulation.
- Trained Convolutional Neural Network in AWS EC2 instance.

Advanced Lane Detection Summer 2019

- Implemented lane detection pipeline in images and video streams.
- Used traditional Computer vision methods using OpenCV and Python.

Digit Recognition, (http://experiments.bigyankarki.com/digit_recognition) Fall 2018

- Developed web based English digit recognition using Flask and RESTful API
- Wrote a research paper describing all the processes followed while implementing the project.

SKILLS

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

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