

## EDUCATION

University of Saskatchewan

Jan. 2022 to Jan. 2024

M.Sc Computer Science 2024

Area of focus: Computer vision. GPA: 4.0

Wheaton College, Massachusetts

Aug. 2015 to May 2019

Computer Science and Mathematics-economics

## SKILLS

**Tools/Packages:** PyTorch, Pandas, Numpy, Scikit-Image, Git, ReactJS

**Languages:** Python, Javascript, MySQL, HTML5, CSS

## EXPERIENCE

University of Saskatchewan, Canada

Graduate Research/Teaching Assistant

Jan. 2022

- Develop and integrate new features into Plotreel, a web application designed for the selection of sequential crop-field images, resulting in a notable reduction in selection time and providing the capability for image review.
- Implement comprehensive **unit tests** for Plotreel backend (**Bottle** framework) with 90% code coverage.
- **Teach and review Python programming** topics ranging from recursion, arrays, and dictionaries for 6 hours a week with 20 students.
- Assist and guide students with their programming assignments and labs every week.

Thimphu Techpark Limited, Bhutan

Software Developer, ERP Division

Nov. 2020 to Nov. 2021

- Worked on ERPNext, an open-source web-based enterprise resource planning (ERP) system based on **Python**, **Javascript**, and Frappe framework.
- Developed and implemented a provident fund module allowing module access to all 1000 employees compared to a legacy system that only 2 people could access.
- Reduced the provident fund interest calculation, disbursement, and data collection from 2 weeks to 1 hour.
- Provided constant development, support, and maintenance, resolving over **200+ tickets** by creating tailored solutions and features for each of the seven big companies in Bhutan.

Watson Foundation, Tanzania/Mongolia/Nepal

Thomas J Watson Fellow

July 2019 to July 2020

- Collaborated with organizations in Tanzania, Mongolia, and Nepal to investigate the development of local robotics capacity and the integration of drone technology through community partnerships with technology organizations.
- Mapped outdoor toilets and Ger(tent) in the oldest settlement in Ulaanbaatar, Mongolia using drone and satellite images to study soil pollution.
- Developed and led diverse educational programs, including instruction in **R/Python** programming, drone technology, and STEM education for primary school students.

Makerspace, Wheaton College

Lab Assistant

Jan. 2017 to May 2019

- Facilitated weekly office hours to instruct students and faculty on the operation of 3D printers and laser cutters, increasing monthly usage by 8 users.
- Collaborated with the resident office department to teach Resident Advisors the operation of 3D printers and laser cutters, fostering cross-functional teamwork and expanding Makerspace's user base.

## AWARDS

Thomas J. Watson Fellowship, Watson Foundation

July 2019

**One of only 40 graduates** nationwide(US) to be awarded this highly selective grant for independent research outside of the United States and home country.

## PROJECTS

**Kongtsey (kongtsey.com)**

Web-based free test preparation platform built on **ReactJS** and **Firestore** for the Royal Civil Service Examination of Bhutan with 500 users and increasing, to address the inequality in educational resources.

**Laktaa**

Android mobile application built on **React Native/ Redux** and **Firestore** for logistics brokerage service to address the lack/expensive logistics services for Bhutanese farmers.