PHUNTSHO NORBU

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EDUCATION

University of Saskatchewan   Jan. 2022 to Current
M.Sc Computer Science 2024
Area of focus: Deep learning: using generative model for data augmentation. Grade: 93.7%

Wheaton College, Massachusetts   Aug. 2015 to May 2019
Computer Science and Mathematics-economics

SKILLS

Key Skill: Data Analysis, Machine Learning Model Development, System Development
Tools/Packages: PyTorch, Pandas, Numpy, Scikit Image, Git, Jupyter Notebook
Languages: Python, Javascript, ReactJS, MySQL, HTML5, CSS

EXPERIENCE

University of Saskatchewan, Canada
Teaching Assistant   Jan. 2022 to Current
- 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 that allowed **access to all of the 1000 employees** of the company compared to the legacy system that was accessible to only **2 people.**
- Reduced the provident fund interest calculation, disbursement, and data collection from **2 weeks to 1 hour.**
- Provided constant development, support, and maintenance (300+ tickets) of the ERP system through designing, building, and customizing features and solutions catering to each of the seven big companies in Bhutan.

Watson Foundation, Tanzania/Mongolia/Nepal
Thomas J Watson Fellow   July 2019 to July 2020
- Collaborated with different organizations across Tanzania, Mongolia, and Nepal to explore how local robotics capacity is built by looking at how organizations form relationships with local communities to assess and integrate the growing drone technology.
- Mapped outdoor toilets and Ger(tent) in the oldest settlement in Ulaanbaatar, Mongolia using drone and satellite images to study soil pollution.
- Conducted different programs ranging from **teaching basic R/Python programming** to drone and STEM education for primary school students.

Makerspace, Wheaton College
Lab Assistant   Jan. 2017 to May 2019
- Taught students and faculty members through weekly office hours on using 3D printers, and laser cutters, resulting in an increase of 8 users monthly.
- Initiated collaboration between Makerspace and the resident office department by teaching 3D printers and laser cutters operation to Resident Advisors to aid their work, resulting in an additional diverse group of Makerspace users.

Lexomics, Wheaton College
Lead Front-End Web Developer   May 2018 to July 2018
- Led 3 front-end developers in **refactoring the codebase, updating and improving** the user interface by assigning weekly tasks and code reviews.

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