

Swopnil Shrestha

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Education Luther College

Expected May 2021

B.A. Computer Science/Statistics

- GPA: 3.51 - Dean's List
- Selected Courses: Data Visualization and Analysis, Computational Models, Internet Programming, OOP Java

Skills

Programming Proficiency Java, Python (Pandas, Keras, Flask, matplotlib), SQL, Bash, Git, Unix/Linux

Analytics IPython, R, Tableau, Excel, Visual Basic for Applications (Macros), Google Analytics

Media/Web JavaScript (Vue, Angular), HTML/5, CSS, FCPX, Photoshop, InDesign, Premiere, Illustrator,

Relevant Experience

Data Engineering Intern

May - Aug 2018

CloudFactory, Kathmandu, Nepal

- Developed algorithms to detect patterns in datasets such as usage of autocorrect in key logger input streams
- Generated interactive analyses and visualizations throughout, accuracy for over 2000 data entry workers
- Created reports from analysis and visualizations and presented them to engineers and stakeholders
- Assisted in the constructor of a predictive neural network to visualize incoming traffic of data from the client server

Skills: SQL, Python - Keras ML, R, Excel

Computer Science Department Preceptor (Teaching Assistant)

Jan 2019 - Present

Luther College, Decorah, IA

- Tutored 6 or more students every week regarding concepts of relational algebra for Luther College's Intro to Data Modeling and Querying Class using Postgresql and Python

- Assisted in developing teaching strategies and acted on student feedback

Skills: SQL, Python, Excel, Moodle

Business Apprentice

May - Aug 2016

Portal Bikes, Kathmandu, Nepal

- Conducted market research by surveying the demographics of cyclists in Nepal and the transportation trends in Kathmandu City; Collected data from Facebook and Strava API to build a database of cycling related events
- Managed social media and content production for a campaign to empower women cyclists in Nepal

Skills: SQL, Python - Keras ML, R, Excel

Digital Media Technician

Oct 2017 - present

Luther College, Decorah, IA

- Generated, cleaned and analyzed data to seek insights about the college's Information Technology Services
- Assisted staff and faculty by giving technical demonstrations on video, photo and audio hardware and software

Skills: SQL, Python (Pandas), Excel, Adobe Creative Suite, Jupyter Notebook

Projects

Bikeshare Data Analysis

Oct - Nov 2018

Luther College, Decorah, IA

- Analyzed and Visualized 5 years of bikeshare trends in the United States with data from CitiBikes and Hubway Bikes
- Utilized Sphinx for deploying the analysis and visualizations onto an interactive website with project documentation

Skills: IPython, Sphinx, ReStructured Text

Software Engineering Documentation Website

Jan 2019

Luther College, Decorah, IA

- Developed a website about common practices in software engineering to help people learn methodologies and principles of software development

- Deployed the website using Hugo and Github Pages

Skills: Python, Hugo, Git, Javascript

Leadership

AllHands Raised \$5000 and organized logistics for the construction of prefabricated shelters after the 2015 earthquake in Nepal

Luther College Provided peer counseling to 46 male students and developed educational programs about mental health, personal development, conflict resolution and sustainability as Resident Assistant

UNICEF Led a group of around 1500 cyclists in a rally organized by the UN in order to support the security of refugees and bring light to their cause

ACM Managed communications, social media, developed educational programs and newsletters for the 120 member ACM student chapter (CSS) at Luther College

Activities & Interests

Activities Dean's List, ACM Luther College, Google I/O Kathmandu Semi finalist, ICPC Hackathon 2018, Major League Hackathon 2017, President's Scholarship, Mental Health Advocate Certification

Interests Human Computer Interaction, Behavioral Economics, Venture Capitalism, Mountain Biking, Photography