

Swopnil Shrestha

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Education

Luther College

Expected May 2021

B.A. Computer Science/Statistics

- GPA: 3.67 - Dean's List

- Selected Courses: Data Visualization and Analysis, Computational Models, Internet Programming, OOP Java

Relevant Experience

Data Engineering Intern

May - Aug 2018

CloudFactory, Kathmandu, Nepal

- Analyzed and visualized throughout, accuracy and other measures for over 2000 from Nepal and Kenya in different timezones through their keystrokes and other limited data
 - Wrote an algorithm that was able to distinguish when autocorrect was used during by looking at sequences of keys entered
 - Presented insights from the data to an agile teams of 100+ engineers, cumulative
 - Constructed a back propagation algorithm to predict incoming traffic of data from the client side
- Skills: SQL, Python - Keras ML, R, Excel*

Computer Science Department Preceptor

Jan 2019 - Present

Luther College, Decorah, IA

- Tutored 6 or more students every week, reteaching course material in larger groups when necessary
 - Graded for an introductory CS class (Data Modeling and Querying)
- 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 2019

Luther College, Decorah, IA

- Analyzed and Visualized 5 years of bikeshare trends in the United States with data from CitiBikes and Subway
 - Developed the project into a website using ReStructured Text running on Sphinx and documented the entire process
- Skills: IPython, Sphinx, ReStructured Text*

Software Engineering Practices Website

Jan 2019

Luther College, Decorah, IA

- Developed a website about common practices in software engineering to help people learn data structures 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

Skills

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

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

Media/Web FCPX, Photoshop, InDesign, Premiere, Illustrator, HTML, CSS

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 Design, Mountain Biking, Space Exploration, Investing, Entrepreneurship, Photography