ROJINA DEUJA

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EDUCATION

University of Nebraska-Lincoln, **Master of Science in Computer Science** [Aug 2019-Dec 2021] CGPA: 3.96
Pokhara University, **Bachelor of Engineering in Computer** [Aug 2013-Sep 2017] CGPA: 3.85

SKILLS

Programming – Python, SQL, JavaScript, TypeScript, Java, Go
Databases – MySQL, PL/SQL, Oracle 12c/11g, PostgreSQL, MongoDB, Neo4j, ETL Processing
Tools – JIRA, Git, Bitbucket, Visual Studio, Postman, Jenkins, Eclipse, System Administration (Unix/Linux)

WORK EXPERIENCE

Software Engineer Intern
Cloudera

May 2021-Aug 2021
Santa Clara, CA

- Designed and built a new **Jenkins** Job Monitoring tool that scans & rebuilds failed jobs, **reducing 4-5 hours of workload to 1-2 minutes**.
- Introduced **Cloudera GitHub Access Management tool**. Developed **APIs in Python** to automate verification & access for 3000+ users.
- Diagnosed issues for **CI/CD** failures; Delivered resolutions for 6 different pain points as part of **Release Engineering (DevOps)** support.

Graduate Research and Teaching Assistant
University of Nebraska-Lincoln

Aug 2019- Present
Lincoln, NE

- Engineered DeBERTa-based **NLP model** with 1.5 billion parameters to detect Semantic Sentence Similarity in textual data.
- Performed **Scientific Data Analysis** and Data Cleaning using **Python** with packages like PyTorch, TensorFlow, Pandas, and NumPy.
- Utilized various **Quantitative** and **Qualitative** methodologies in support of identifying data patterns, trends and explaining relationships.
- Led courses related to **Software Engineering** and **Data Modeling (SQL/NoSQL)** for over 300 students along with 1:1 tutoring.

Software Engineer Intern
DMSi Software

May 2020-Aug 2020
Omaha, NE

- Developed Dynamic Door configurator, a Real-time 2D Image Generation web application using **React**, **TypeScript**, **Go**, **PostgreSQL**.
- Created **RESTful API** endpoints with **Golang** and **Gin** to facilitate users to add/update/delete BOMs (Bill of Materials).
- Remodeled front-end web components using **HTML5** and **CSS** to align User experience with existing DMSi products.
- Proposed and administered **DBMS Hashing** on Azure BLOB storage to improve Image Generator response time by more than 60%.

Software Engineer
Login Information Systems

Oct 2017-May 2019
Bloomington, MN

- Spearheaded Full-stack development for the company website using **Object Oriented PHP, HTML/CSS,** and **MySQL**
- Customized Data Warehousing solutions using **Oracle 11g/12c** for our biggest clients including Express, Petco, Groupe Dynamite.
- Pipelined **Data Integration** using efficient **ETL scripts** and **Shell scripts** in **Python**, Oracle Data Integrator, and **KSH**.
- Initiated extensive **SQL Query optimization** and **Database tuning** to reduce processing time by 50% - 80%.
- Remodeled **Analytical Reporting** structures from the ground up to boost customer BI experience for £640+ million revenue UK retailer.

Software Engineer Intern
LIS Nepal

May 2017-Aug 2017
Lalitpur, Nepal

- Devised and implemented a **Predictive Machine Learning** application with a **Data Visualization dashboard** using **Java**, **JavaScript**.
- Developed full-stack web application, Question Set Generator using **Java (Spark)**. Deployed and used for generating MCQs for applicants.

PERSONAL PROJECTS

Yelp Data Modelling ⧉
A Topic Modelling project that analyzes Yelp user reviews and detects the most talked about topics with popular keywords, complete with a web visualization dashboard built using ReactJS, NodeJS, and D3.js.

NIPS Challenge Submission ⧉
An ensemble Feature selection model that picks out 5 relevant features out of 501 spurious features in MADELON dataset, written in Python.

rojinadeuja.github.io ⧉
Personal website, built with ReactJS.

Network Intrusion Detection ⧉
A Network Security model for Intrusion Detection that predicts future attacks on vulnerable systems, written in Python.

AWARDS AND EXTRACURRICULARS

Member | GHC Scholar, *Nepali Women in Computing* (*AnitaB Systers Affinity Group*), *2021*

Huskers Hopper Scholarship Award, *School of Computing*, *UNL*, *2020/2021*

Graduate Student Representative (GTA), *School of Computing*, *UNL*, *2020*

Member at Large, Graduate Student Association, *UNL, 2019*

Event Organizer, *International Django Girls Workshop, 2017*

Computer Science Award, *Department of Computer Engineering, NEC, 2017*

Microsoft Student Partner *2016 (Activities: Hour of Code, Skype-a-thon, Global Azure Bootcamp, MS Office Championship)*