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, JavaScript (ReactJS, Node.js), TypeScript, C#(.NET), 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
May 2021-Aug 2021
Cloudera
Santa Clara, CA
- Designed and built a new **Jenkins** Job Monitoring tool that scans & rebuilds failed jobs, eliminating need for any manual intervention.
- Introduced Cloudera GitHub Access Management tool. Developed a **GitHub API in Python** to automate verification and access for users.
- Diagnosed issues for Jenkins Build Failures and provided quick resolutions as a part of **Release Engineering/DevOps support**.

Graduate Research and Teaching Assistant
Aug 2019- Present
University of Nebraska-Lincoln
Lincoln, NE
- Engineered DeBERTa-based **NLP model** with 1.5 billion parameters to detect Semantic Sentence Similarity in textual data.
- Performed Scientific Data Analysis using **Python** with packages like PyTorch, TensorFlow, Pandas and NumPy while utilizing parallel computing on the state of Nebraska's fastest High-Performance Computing servers.
- Led courses related to Software Engineering and **Data Modeling (SQL/NoSQL)** for over 300 students along with 1:1 tutoring.

Software Engineer Intern
May 2020-Aug 2020
DMSi Software
Omaha, NE
- Developed Dynamic Door configurator, a Real-time 2D Image Generation web application using **React**, **TypeScript**, **Go**, **PostgreSQL**.
- Created **RESTful API** endpoints that 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 **Database optimization** to improve Image Generator response time by more than 60%.

Software Engineer
Oct 2017-May 2019
Login Information Systems
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** in **Python**, Oracle Data Integrator and **KSH**.
- Redesigned Analytical reports with **query optimization and tuning** to reduce processing time by 50% - 80%.

Software Engineer Intern
May 2017-Aug 2017
LIS Nepal
Lalitpur, Nepal
- Designed and implemented a **Predictive Machine Learning** application with **Data Visualization dashboard** using **Java**, **JavaScript**.
- Developed full-stack web application, Question Set Generator using **Java (Spark)**. Deployed 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

Mentor, *Yomari Code Camp 2019*
Provided technical mentoring for the annual Yomari Code Camp, where participants had to come up with solutions to various ongoing issues.

Computer Science Award, *Department of Computer Engineering, NEC, 2017*
Awarded to distinctive students at the Computer Science department as a recognition of outstanding Academic performance.

Microsoft Student Partner
Planned and organized workshops for young children- Hour of Code, Skype-a-thon, Django Girls Workshop and Global Azure Bootcamp.

First Position, *Locus Yomari Code Camp, 2017*
Developed 'Legal Alert', a mobile application that matches abused women with legal service providers with the help of a short questionnaire.