Oshan Shrestha

Web Developer / Data Engineer

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As a computer science student in my last semester seeking an entry-level position in data engineering, I possess a solid understanding of data structures, algorithms, and web tools. I have gained practical experience through projects in developing and implementing data pipelines, and building prototypes. With strong technical skills and a dedication to delivering quality work, I am eager to apply my knowledge and skills to contribute to a dynamic team.

Projects

Feature Selection for Binary Classification, *Machine Learning [Academic]* 07.2022 – 09.2022
- Built several Artificial Neural Networks (ANNs) to test different sets of features against their efficiency and accuracy.
- Implemented feature extraction techniques such as Feature Ranking, Univariate Feature Selection, Recursive Feature Elimination.
- Used: tensorflow, sklearn, pandas, matplotlib

Purlieu, *Digitization & Automation [Academic]* 09.2021 – 01.2022
- Incorporated e-payment gateway and online wallets integration with custom transaction verification server.
- Built a user platform for students & teachers to seamlessly update their cash cards.
- Used: ReactJS, Redux, SCSS, Khalti SDK, ExpressJS, Prisma ORM, MySQL

Routine Management System, *Digitization & Automation [Academic]* 04.2021 – 07.2021
- Built a digital platform to automate the traditional procedures of routine and resources scheduling system in Kathmandu University.
- Used: ReactJS, Redux, SCSS, FastAPI, Tortoise ORM, MySQL

Dailygram: A News Portal, *Data Processing & Aggregation [Academic]* 07.2020 – 09.2020
- Built crawlers to periodically visit and scrape various online news sites and format them to a standard structure, ready for consumption.
- Built clean and intuitive user interfaces to view news by readers.
- Used: flask, requests, beautifulsoup, ReactJS, NextJS, MongoDB

Certificates

Python Project for Data Engineering - Coursera (Extracted data from multiple file formats, transformed it into specific datatypes, and then loaded it into a single source for analysis.)

Back End Development and APIs - FreeCodeCamp (Built various microservices implementing best practices approach using widely used javascript libraries used in real life applications.)

JavaScript Algorithms and Data Structures - FreeCodeCamp (Implemented various data structures and algorithms to solve problems like text cipher, cash denomination, regex matching.)

Education

Kathmandu University, *B.Sc. Computer Science* 08.2018 – present
(Electives: Machine Learning, Information Security) Dhulikhel, Nepal

Skills

Data Engineering (PySpark, Tensorflow, scikit-learn, Pandas, Numpy, Matplotlib, Seaborn)

Frontend Web Development (ReactJS, NextJS, Redux, Vite, Vercel, Tailwind, Ant Design, Figma)

Backend Web Development (FastAPI, ExpressJS, JWT, MongoDB, PostgreSQL, Prisma, SQLAlchemy)