

Rishi Raj Shrestha

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📍 Kathmandu, Nepal

in [rishirajshrestha](#)

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SKILLS

PROGRAMMING STACK: Python, Java,

WEB STACKs: HTML, CSS, Django, Django REST Framework, Flask

DATABASE: MYSQL, MongoDB, PostgreSQL, SQLServer

AUTOMATION AND TESTING: Selenium, Selenium Grid, Selenium WebDriver, Robot Framework

TOOLS: Git, Docker, Apache Kafka

EXPERIENCE

Python Developer | Kamana Sewa Bikas Bank | Kathmandu, Nepal | October 2023 - Present

- Developed and deployed 5 applications aimed at achieving business goals, reducing staff workload, and minimizing manual processing time through automation.
- Collaborated with cross-departmental teams to gather requirements and design inhouse applications focused on transactions, customer satisfaction, and operational efficiency.

HIGHLIGHTED PROJECT

Credit Information Processing | Automation and Data Processing | Python-Selenium

- Developed and integrated an automated system to streamline credit information processing, improving data accuracy by implementing a similarity score mechanism that processes large datasets to find the best result.
- Leveraged Python & Selenium to automate interactions with the CIB portal, reducing manual involvement by 85%, achieved 95% file accuracy and enhancing operational efficiency.

Customer Repository System | Web Application | Django Web framework

- Developed a centralized system to manage customer data during cash deposit visits, eliminating the need for customers to repeatedly submit identification cards.
- Used Django and deployed on Docker Container, the CRS integrates LDAP authentication for secure user access.

Data Engineering Apprenticeship | Code Rush | Lalitpur, Nepal | August 2022 - May 2023

- Gained hands-on experience in building scalable data pipelines, data processing, data warehousing, big data and analytics using Amazon S3, Redshift, Lambda, Athena, EMR, Kinesis, Quick sight and AWS Glue through the AWS Academy Data Engineering course.

Developed various data engineering projects featuring:

- A video processing system using OpenCV for frame extraction and Librosa for MFCC audio analysis, improving its scalability and performance of large video and audio dataset processing.
- A real-time stock monitoring application integrating yfinance API for automated price tracking and notification system.

Full Stack Developer | Lunar IT Solution | Itahari, Nepal | August 2021 - November 2021

- Collaborated with the development team to build dynamic websites for local businesses using Django, focusing on front-end and back-end development with features like product listings, Search functionality, newsletter subscription and authentication & authorization.
- Optimized application performance through image compression, lazy loading, and query optimization in Django, improving load times and responsiveness.

Certification

- Career Essentials in GitHub Professional Certificate
- LambdaTest Test Automation Professional Certificate
- Analyzing and Visualizing Data with Microsoft Power BI

EDUCATION

Itahari International College, 2019-2022

BSc (Hons) Computing

Highlighted Modules: Computer Hardware and Software Architectures, Software Engineering, Professional Issues, Ethics and Computer Law, Advanced Database Systems Development, Artificial Intelligence, Advanced Programming Technologies.

Sainik Awasiya Mahavidyalaya, 2017-2019

Science (Major Biology + Mathematics)

PERSONAL PROJECTS

Guardian | Web Application | Django Web framework

- It is a web application that acts as a hub for pharmacists, counselors, and their customers.
- Implementation of custom user model, Google APIs, PayPal Payment Integration.
- For Technology: Python Web framework – Django, Postgres for database and HTML5, CSS and JS for frontend.