

Ujjawal Poudel

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SKILLS

- **Programming:** Python, C, C++
- **Backend:** GraphQL, RESTful API
- **Frameworks:** Flask, Django
- **Cloud:** AWS (Lambda, Cognito, S3, SNS, Scheduler, CloudWatch, EC2)
- **Databases:** PostgreSQL, SQL, MongoDB
- **DevOps:** Docker, GitHub Actions
- **AI/ML:** TensorFlow, Keras, Scikit-learn, NLP
- **Data Science:** Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebooks
- **Tools:** Postman, Swagger, Beautiful Soup, Jira, GitHub
- **Other:** Problem-Solving, Team Collaboration, Technical Writing

EXPERIENCE

Backend Engineer | Bottle Technology Pvt. Ltd., Lalitpur, Nepal

April 2021 - November 2022

- Secured a scalable and reliable backend by designing and developing the system for a contact-sharing app using AWS Lambda and CloudFormation.
- Strengthened security and streamlined user management by deploying AWS Cognito and AWS Web Federated Identity for robust user authentication and access control.
- Boosted system performance by 50% by integrating GraphQL, redesigning the data-fetching layer, and optimizing server load and data retrieval.
- Accelerated deployment timelines by developing an e-learning platform using AWS serverless architecture, leading to more efficient project launches.
- Enabled timely event notifications by implementing monitoring solutions using AWS SNS.

Software Engineer | Spiralogs International Pvt. Ltd., Kathmandu, Nepal

December 2020 - April 2021

- Facilitated accurate data exchange between HL7 (Health Level 7) and standard formats by designing a universal Python mapper for bidirectional conversion of health data.
- Achieved more efficient data updates by creating MySQL Stored Procedures, which streamlined operations and reduced query execution time and server load.

Python Developer | Rooster Logic Pvt. Ltd., Kathmandu, Nepal

December 2018 - November 2020

- Streamlined data extraction processes by developing web scraping solutions with Beautiful Soup and integrating them with MongoDB for more efficient data handling.
- Delivered a robust software architecture by building a Flask-based Management Information System with MongoDB and using Pydantic validation to ensure data integrity and type safety.
- Optimized data management and system responsiveness by designing a PostgreSQL database schema and developing RESTful APIs for a robust system architecture.
- Improved system performance by conducting load balancing and API tests using Locust and Postman.
- Enhanced user experience and system performance by implementing Celery for background email notifications.

EDUCATION

Post Graduate in Artificial Intelligence and Machine Learning | Lambton College, Toronto, Canada

January 2023 - August 2024

Bachelor's Degree in Computer Engineering | Tribhuvan University, Dharan, Nepal

November 2014 - September 2018