

Amritmani Aryal

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SUMMARY OF QUALIFICATIONS

- **Profile Overview:** A passionate tech enthusiast and an avid learner with over 2 and a half years of experience as a Software Engineer working on data engineering projects for the largest IT companies in Nepal
- **Other notable works:** Led several team projects and mentored several new developers.

TECHNICAL SKILLS

- **Programming Languages & Database:** Python, PySpark, Scala, C#, MySQL, Postgres, PL/SQL, MSSQL
- **Data Science & Machine Learning:** NumPy, pandas, matplotlib, PyTorch, TensorFlow, scikit-learn, SQL
- **Cloud & DevOps:** AWS (EC2, S3), Docker, Hadoop, Apache Spark, Git, Linux/Bash, Apache Airflow
- **Frameworks & Tools:** React, Django, Pentaho, Microsoft Excel, Jira, Github, Gitlab, Postman, Node.js, Bootstrap

EMPLOYMENT

Graduate Assistant | CS Department, Miami University | Oxford, OH August 2024 – Present

- Grading assignments and providing constructive feedback.
- Assisting students with project ideas and implementation.

Software Engineer | Infinite Computer Solutions (formerly Cotiviti) | Kathmandu, Nepal April 2024 – July 2024

- Automated several workflow pipelines using only Shell Scripts and PL/SQL
- Tasked with extracting data from several sources (public and private), integrating that data into the company's existing data pipelines, and validating the whole process for (US) healthcare data analytics

Software Engineer | ExtensoData, F1Soft Group | Kathmandu, Nepal Oct 2022 – April 2024

- Worked with financial and transactional data of the biggest banks & financial institutions in Nepal to provide them with Data Analytics services and products
- Designed and implemented ETL pipelines using Apache Spark, Apache Airflow, Python, and SQL
- Leveraged ETL best practices to improve the performance and scalability of data pipelines
- Collaborated with data scientists to ensure high-quality input data for machine learning models, contributing to more accurate predictions.

Software Engineer Intern and Trainee | Grafi Offshore | Kathmandu Nepal Jun 2021 – Jan 2022

- Assisted the senior developers by supporting design, coding, and testing and contributing to fixing bugs in the existing system.
- Developing SQL queries and stored procedures for accessing data from the SQL server database.
- Worked on two major projects. First, a skills assessment system, and second, LesLinq, a microlearning solution.

EDUCATION

Miami University | Master of Science in Computer Science | Oxford, OH August 2024 – May 2026

- Research areas: Machine Learning, Remote Sensing and Computer Vision, Generative AI, Software Engineering

Tribhuvan University | Bachelor of Science in Computer Science | Nov 2016 – April 2021

- Relevant Coursework: Software Engineering, Artificial Intelligence, Computer Networks, Algorithms

PROJECTS AND PUBLICATION

E-commerce platform (March 2020)

Developed an e-commerce platform tailored for the local market in Nepal, embedding recommendation algorithms into the system.