Rakshya Pandey

Data and BI Engineer | Software Engineer

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Education

Master of Science in Computer Science (Aug 2024 – Present)

University of Louisiana at Lafayette, USA

- GPA: 4.00
- Expected Graduation: December 2025
- Courses: Principles of Programming Language – Haskell, Distributed Computing Systems, Data Mining

Bachelor of Science in Computer Science and Information Technology (2017 - 2021)

St. Xavier's College, Kathmandu, Affiliated to Tribhuvan University, Nepal

- Aggregate Grade Percentage: 85.57%
- Final Year Project: "Plantopedia: A Deep Learning approach to Plant Identification"
- Received performance-based Academic Excellence Scholarship covering 50% of tuition fees
- Class Representative of academic batch 2017-2021

Professional Experience

Graduate Assistant (Aug 2024 – Present)

University of Louisiana at Lafayette, USA

- Developed scripts to get the distribution areas that currently/have been impacted by a natural disaster using OpenFEMA Dataset (Python, Microsoft SQL Server Management Studio)
- Developed a Campaign Landing Page for University of Louisiana at Lafayette Foundation's Website (Tech Stack: AngularJS, Java Spring Boot and Microsoft SQL Server Management Studio)

Software Engineer (Feb 2022 – July 2024)

LIS Nepal Pvt. Ltd., Lalitpur, Nepal (Offshore Development Center for Logic Information Systems, Minnesota, USA)

- **Bluemercury, USA** (Feb 2024 – July 2024)
    - Developed and managed BI Data Models using Atscale to meet business requirements
    - Worked closely with the ETL team to understand the incoming source data (KWI) to EDW target tables and developed complex SQL views to meet the reporting requirements
    - Developed new Business Reports (Aged Inventory, Replenishment) in Tableau and Excel (Merchandising Daily Sales Flash)
    - Enhanced existing complex SQL views, Atscale BI models and Tableau reports (Merchandising, Store Operations, Inventory) as per business requirements
    - Worked directly with the Atscale team to implement Row Level Security within existing BI model in Atscale and Tableau Field Facing Reports
    - Other Key Responsibilities: Prepared and provided Knowledge Transfer documentation and sessions for the Managed Services Team, Mentored and facilitated training on Atscale and Tableau to new interns in the project
- **Kayanee, Saudi Arabia** (Oct 2023 – Jan 2024)
    - Contributed to the development of data extraction scripts by Json parsing of Shopify API data using pandas
    - Performed unit testing for data loading scripts and validated the data loaded into Data Vault (Oracle ADW)
    - Contributed to the development of Data Mart tables, Data Mart views and Tableau business reports (Sales Performance, Merchant Deep Dive, Sales Returns)
    - Developed an ad-hoc report in Tableau for quick access to business insights
- **Belk, USA** (Nov 2022 – Sep 2023)
    - Developed data extraction pipeline views for Customer Data Platform (CDP) for Loyalty Customers, Airship Events, Ordergroove Orders and Subscription, Medallia and Clienteling feeds
    - Designed complex SQL queries to clean-up customer data according to CDP needs
    - Implemented data masking policies to secure Customer PII data
    - Performed data reconciliation and analysis of Audited Transactions Data, identified and debugged data issues, and proposed solutions to ensure accuracy across source (Resa) to CDP (Acquia)

- Created config files to transfer data files from Azure to SFTP
- Developed new extraction and loading scripts and integrated it into the Robling ETL framework and made modifications to existing scripts as per requirements to load EDW target tables
- Developed python script to automate email notification of daily extraction logs and integrated it into Robling ETL framework
- Automated and monitored data extraction pipelines using JAMS Scheduler, ensuring timely and accurate data delivery by creating and scheduling jobs
- <u>Other Key Responsibilities</u>: Offshore project lead, Reported weekly project status to company stakeholders, Communication with cross-functional team, Mentored new team members in the project
- **Ralph Lauren, USA** (Feb 2022 – Oct 2022)
  - Developed ETL pipelines using AWS services, Lambda, Glue, Redshift, s3, Event Bridge, Kinesis and CloudFormation to load data from Google Big Query to target tables at Redshift Data Warehouse
  - Prepared test cases and performed end-to-end unit testing for live-inventory ETL pipelines to ensure data correctness across full pipeline
  - Documented the technical design of the ETL architecture, flow of data and how each service was used

Skills

- **Language & Tools:** SQL, Python, Snowflake, Oracle, AngularJS, Java Spring Boot, Microsoft SQL Server Management Studio
- **Cloud:** AWS Services (Lambda, s3, Redshift, Glue, Kinesis, CloudFormation)
- **Development Tools:** VS Code, SourceTree, MS Office
- **Project Management Tools:** Jira, Confluence, Teamwork.com
- **Version Control:** Bitbucket, GitHub
- **Data Analytics Areas:** Inventory, Retail, Customer
- **Data Modeling and Visualization:** Tableau, Atscale

Projects

- **GlaucomaDetection:** Multimodal Image Classification for Glaucoma Detection using SLO and OCT Fundus Images (Python and TensorFlow) | <u>GitHub Link</u> **(Nov 2024 - Present)**
- **Flappybird:** A web game (JavaScript) | <u>GitHub Link</u>
- **Plantopedia:** A web app to identify 10 different species of plants based on the images of fruits or flowers (FastAI, Django) | <u>GitHub Link</u>
- **8-bit-Games:** A web interface to browse and play games (HTML/CSS/JavaScript) | <u>GitHub Link</u>
- **Student Registration System:** A web platform to register students (HTML/CSS/JAVASCRIPT/PHP) | <u>GitHub Link</u>

Involvements

- **Executive Committee Member (Aug 2024 – Present)**
  Nepalese Student Association, University of Louisiana at Lafayette
  - Fostering a supportive environment for Nepalese students at the university
- **Fellowship (2021 – 2022)**
  Women Leaders in Technology, Nepal
  - Attended Bootcamps covering technical sessions on GitHub and Javascript, Goal Setting, Leadership, Team Building, Time management, and Presentation sessions
  - Involved in the development of project SheCrafts using technologies: HTML/CSS/JAVASCRIPT/PHP (a web platform to showcase domestic talents and works of marginalized women)
  - Attended monthly meetups
  - Conducted Hour of Code in a public school
- **Treasurer (2020 – 2021)**
  KMC Alumni IT Sector, Nepal
  - Responsible for overseeing the committee's finances

Awards

- **The Fr. Marshall D. Morgan, S.J. Memorial Award for Excellence in Academics (2022)**
  In recognition to achieving the highest aggregate GPA during the period of study at St. Xavier's College, Kathmandu upholding the Xavierian Values of Academic Excellence