

SRIJAN POKHREL

Senior Data Engineer | Python & SQL | Data Pipelines & ETL

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PROFESSIONAL SUMMARY

Data-focused Full-Stack Engineer with 3+ years building scalable systems, data pipelines, and REST APIs across multiple products. Currently serving as CTO at Foxbeep Technology, architecting backend infrastructure for data-intensive applications. Experienced in Python, SQL, Node.js, and database optimisation with hands-on exposure to data analytics, statistical modelling, and distributed system design. Passionate about turning raw data into reliable, high-performance infrastructure that drives product decisions.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript, PHP

Data Engineering: ETL pipelines, data modelling, query optimisation, data quality

Databases: MySQL, MongoDB, SQL Server indexing and query optimisation

Cloud & DevOps: Docker, AWS, GCP, Git, GitHub, Postman

Analytics & ML: NumPy, TensorFlow, Scikit-learn, statistical modelling, Excel

Backend: Node.js, Express.js, Laravel, CodeIgniter, REST API design

Testing: Jest, Playwright - unit, integration, and end-to-end

Other: Microservices architecture, data pipelines, API automation, CRM integrations

PROFESSIONAL EXPERIENCE

Chief Technical Officer | **Foxbeep Technology** - Kathmandu *Nov 2025 - Present*

- Design and own end-to-end data architecture for multiple products, ensuring scalability, reliability, and performance.
- Build and maintain data pipelines and ETL processes connecting product systems, payment gateways, CRM platforms, and external APIs.
- Define data quality standards, consistency checks, and automated testing across the engineering team.
- Oversee analytics and reporting infrastructure to support data-driven product decisions.
- Lead backend and frontend architecture using PHP, Node.js, and React - integrating data flows across the full stack.

Software Developer - Full-Stack & Integrations | **Foxbeep Technology** - Kathmandu *Jul 2025 - Sep 2025*

- Built data dashboards and reporting tools connecting frontend interfaces with backend data sources and external platforms.
- Designed REST APIs for structured data exchange between products and third-party services.
- Optimised SQL database queries and data pipelines, improving system throughput significantly.
- Integrated marketing analytics tools and external data APIs to create unified data views.

Data Analytics Intern | **Arihant Multifibres / Arihant Poly-Packs Ltd** - On-Site *May 2024 - Aug 2024*

- Analysed production datasets to identify process inefficiencies, reducing raw material waste by 10%.
- Built statistical models using Python (NumPy) and SQL to track product defect rates over time.
- Delivered management-ready data visualisations and reports using Excel and Python.

Junior Backend Developer | **Nxtechhosting Solution** - On-Site *Feb 2024 - Apr 2024*

- Designed microservices architecture improving system scalability by 40%.
- Developed server-side applications with Node.js and Express.js, improving performance by 30%.
- Managed MongoDB and MySQL database operations including schema design and query optimisation.
- Built RESTful APIs for frontend consumption and third-party service integrations.

Full-Stack Developer | **IGH Digital Dubai** - Remote *Jul 2023 - Feb 2024*

- Built REST APIs and full-stack web applications for international clients.

- Integrated marketing analytics tools and developed data pipelines for lead generation campaigns.
- Delivered technical solutions aligned with business and reporting goals.

KEY PROJECTS

- Hotel & Restaurant POS System - Real-time data flows across role-based access layers (Admin, Chef, Kitchen). Built with Next.js and SQL, including hardware integration.
- Inventory Management System - Full POS with product and stock tracking backed by MySQL reporting. Built with Laravel.
- School Management System - Automated attendance data collection, student records management, and SMS notification pipelines. Built with Laravel.
- E-Commerce Websites - Responsive storefronts for international clients with data integration. Built with Next.js and MongoDB.
- Solubility Prediction (ML) - Neural network model using TensorFlow and Scikit-learn for molecular property prediction from structured datasets.

EDUCATION

MSc - Informatics & Intelligent System Engineering | [Tribhuvan University, Thapathali Campus](#) - Kathmandu
2025 - Present

Courses: Computer Vision, Numerical Analysis, Computational Intelligence, Information Theory

Bachelor of Engineering - Computer Engineering | [Tribhuvan University, Purwanchal Campus](#) - Dharan
2020 - 2024

Courses: Data Mining, Database Management Systems, Computer Networks & Security, Software Engineering, OOP, Statistics

CERTIFICATIONS

- Supervised Machine Learning: Regression & Classification - Stanford University / DeepLearning.AI
- Full Stack Development with MERN Stack
- SQL - Udemy Certification

ACHIEVEMENTS

- 1st Place - Web Development Competition
- Registered Licensed Computer Engineer - Nepal Engineering Council
- Organised 3-day Robotics & Arduino automation training as ACES coordinator