

Bhupendra Dangi

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PROFESSIONAL SUMMARY

Computer Science graduate with **3+ years of experience** in data validation, QA automation, and enterprise system reliability. Demonstrated strong **problem-solving skills through data-driven projects**, including spatial analysis, dashboards, and workflow optimization using ArcGIS Pro, QGIS, and Python. **Seeking GIS Analyst roles** to apply data accuracy, spatial analysis, and system optimization in real-world geospatial applications.

TECHNICAL SKILLS

GIS & Spatial Analysis: ArcGIS Pro, ArcGIS Online, QGIS, Buffer Analysis, Overlay Analysis, Spatial Join, Network Analysis

Geospatial Data: Shapefile, GeoJSON, Raster Data, DEM, Census (ACS), OpenStreetMap (OSM)

Programming & Data Analysis: Python (Pandas, NumPy), SQL, JavaScript

Data Visualization: Plotly, ArcGIS Dashboards

QA & Automation: Cypress, API Testing, Regression Testing, Test Automation, Data Validation

Tools & Platforms: Git, Docker, Linux

PROFESSIONAL EXPERIENCE

University of Texas Permian Basin

Aug 2024 – May 2026

Graduate Research Assistant

Odessa, TX

- * Organized course materials and schedules, improving accessibility and reducing administrative delays
- * Collaborated with faculty members, supporting efficient communication and course coordination
- * Coordinated, scheduled, and proctored 20+ exams per semester, ensuring timely execution and adherence to academic timelines

Naamche

Jul 2023 – Jul 2024

Software QA Engineer II

Kathmandu, Nepal

- * Validated end-to-end functionality across **3+ projects** ensuring production readiness and reducing release risks through comprehensive pre-release testing
- * Validated data integrity across web and mobile platforms (Android/iOS), improving release stability and reducing post-production defects by 30%
- * Managed data workflows for a property management platform serving 5+ communities, ensuring consistency across vendors and managers systems
- * Established QA standards as the first QA engineer, designing automated testing frameworks using Cypress E2E that improved efficiency by 25% and reduced manual testing effort by 40%
- * Mentored 3 junior engineers, reducing onboarding time by 50% and improving team productivity

Seva Development

May 2021 – Jul 2023

Software QA Engineer I

Lalitpur, Nepal

- * Defined data acceptance criteria with project stakeholders, improving feature accuracy and reducing rework
- * Validated large-scale datasets integrated from SAP B1 and SAP ByDesign, ensuring accuracy across thousands of inventory and logistics records
- * Verified API and database data flows, ensuring reliable synchronization across multiple systems and endpoints
- * Developed 50+ test scenarios to improve data coverage for new workflows and application features
- * Presented system workflows and insights to stakeholders, improving visibility into data processes and system performance

Seva Development

Feb 2021 – Apr 2021

Software QA Intern

Lalitpur, Nepal

- * Executed manual test cases across web applications, improving system reliability and functionality validation
- * Documented defects and workflows, contributing to improved data quality and faster bug resolution (20%)
- * Supported test planning and validation, strengthening foundational data testing practices

EDUCATION

The University of Texas Permian Basin

Aug 2024- May 2026

M.S. Computer Science (GPA: 4.0/4.0)

Odessa, TX

- * **Relevant Coursework:** Data Structure and Algorithms, Artificial Intelligence, Database Administration

Tribhuvan University

Dec 2024

Bsc. in Computer Science and Information Technology

Kathmandu, Nepal

Location-Based Data Analytics Platform (Yelp) | *Python, Streamlit, Plotly, APIs*

- * Analyzed location-based business datasets to identify pricing, rating, and service distribution trends across regions
- * Developed interactive dashboards with filtering by city, rating, and price range for spatial data exploration
- * Implemented geospatial-aware analysis to uncover regional patterns and business density insights
- * Built data pipelines and integrated AI-based recommendations using FAISS and OpenAI

StatSQLi – Statistical Blind SQL Injection Tool | *Python, Flask, Statistics*

- * Developed a high-performance data extraction tool using statistical methods (Welch's t-test) for reliable signal detection
- * Optimized extraction using binary search, reducing query complexity to **$O(\log n)$** per character
- * Improved data accuracy with adaptive timing models and reduced false positives by **90%**

Genetic Algorithm Simulation Game (Flappy Bird) | *JavaScript, Firebase*

- * Built a simulation-based web application demonstrating genetic algorithm optimization with evolving agents
- * Implemented algorithmic models to optimize agent performance across generations
- * Designed interactive visualizations and managed user data using Firebase Firestore