

Samir Bhusal

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Education

Dakota State University | Madison, SD

Master of Science, Information Systems | August 2025 – Present

Purbanchal University | Kathmandu, Nepal

Bachelor of Science, Computer Applications | October 2017 – October 2022

Project: Created ecommerce platform with product categories, search, add to cart, payment integration (Khalti) using python Django Framework and SQLite.

Experience

Graduate Research Assistant | Dakota State University, Madison, SD

August 2025 – Present

- Designed an interactive [Figma prototype \(“Helpdesk RAG Assistant”\)](#) showcasing an AI-powered incident resolution system and performance dashboard and presented at the Siouxland IT Symposium.
- Tools/Skills:** Figma, Wireframing, Prototyping, UX/UI Design, Interaction Design, Smart Animate, AI Product Design, Dashboard Visualization, User Flow
- Supported faculty research by building and maintaining a literature matrix.
- Assisted in evaluating Python-based analytics projects and assignments by making rubric and grading

Software Engineer – Quality Assurance | Deerhold Ltd., Kathmandu, Nepal

November 2022 – August 2025

- Maintained automated test coverage of more than 90 percent and pass rate over 95 percent for [Higi platforms](#) using BDD Cucumber framework with Selenium, Appium and Java for mobile and web platforms.
- Developed and maintained test automation for the mobile app (Android, iOS) [\(InStride Health\)](#) with 80 percent automation coverage using BDD Cucumber framework with Selenium, Appium and Java.
- Enhanced product quality for InStride Health, cutting new client-reported UAT defects by 80%.
- Managed QA processes and rebuild of legacy system, achieving production readiness in 3 months for [Wellness Portal](#).
- Managed test planning, execution, reporting, and product release documentation and performed manual and automation test execution.
- Collaborated in agile ceremonies ensuring alignment with cross-functional teams for continuous improvement.

Projects

Python-BDD-Automation Framework | Python, Behave, Selenium, Page Object Model

- Developed a scalable Python Behave + Selenium POM framework with multi-browser & environment-driven execution

RAG LLM Chatbot | Python, LangChain, OpenAI, Streamlit.io

- Developed a RAG chatbot for intelligent incident query resolution using internal documents.

Telegram Attendance Bot | Python, AsyncIO, Railway, Telegram API, GitHub

- Automated attendance system with holiday handling, state tracking, and async scheduling

Meri Sangini | React Native

- Freelance mobile app for Nepal CRS Company with features like User Authentications, Auto Slide Carousel Card, Navigation (Stack, Bottom and Side Menu, Horizontal Sliding Menu), and Integrated Location Features for Nearby Shops.

geFont | React Native

- Freelance Project for GEFONT with features like User authentication (login, signup, and forgot password), tab and stack navigation, horizontal sliding menu, API integration to fetch News and Updates

Technical Skills

Languages: Java, Python, SQL, Gherkin

Frameworks: Selenium, Appium, Karate, Cucumber (BDD), JUnit, TestNG, Behave, React Native

Cloud & Tools: Git, GitHub, JIRA, Confluence, Browserstack, Android, iOS, Excel, Power BI

Methodologies: Manual Testing, Regression, Smoke, UAT, SDLC, STLC, Agile/Scrum, cross-browser and responsive testing

Documentation: Test Plans, Test Cases, Bug Reports, Release Notes

Achievements / Awards

- Winnter of Hult Prize Purbanchal University 2020