

Ujjwal Aryal

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PROFESSIONAL SUMMARY

Backend-focused Python developer with 2+ years of production experience building **Flask** web applications backed by **PostgreSQL** and **SQLAlchemy**. Track record of owning projects end-to-end — from architecture through deployment — with a founder-like bias for action and automation. Comfortable working async across distributed teams, picking up new tools quickly (Go, Ruby, shell scripting), and shipping robust, well-tested services. Passionate about finding asymmetric wins where a small technical change delivers disproportionate impact.

SKILLS

Languages	Python (primary), JavaScript, Go (familiar), Ruby (familiar), Bash/Shell
Backend & APIs	Flask, SQLAlchemy, REST APIs, Jinja2, Microservices
Databases	PostgreSQL, SQL
DevOps & Cloud	Docker, Linux (Arch/Ubuntu), Git, GitHub Actions, GitLab CI/CD
Testing & Quality	pytest, Unit & Integration Testing, Logging & Monitoring, Code Review
Tooling	Jira, Postman, Selenium WebDriver, Chrome DevTools, Agile/Scrum

PROFESSIONAL EXPERIENCE

Beta Analytics Pvt. Ltd. Sept 2022 – Jul 2023
Software Engineer *Kathmandu, Nepal*

- Led end-to-end development of **Python Flask** web applications with **SQLAlchemy**-backed **PostgreSQL** databases, taking full ownership from schema design through production deployment.
- Automated repetitive project workflows via Python scripting, eliminating manual overhead and meaningfully accelerating team delivery cadence.
- Built interactive geospatial data visualizations using **Leaflet.js**, transforming complex spatial datasets into accessible, stakeholder-ready dashboards.
- Contributed upstream to **SimpleDataTables** (open-source JS library): shipped new features and modernized the bundling pipeline with **esbuild**, collaborating async with international maintainers via GitHub.
- Drove code review culture across the team — consistently raised the quality bar, caught regressions early, and fostered a collaborative development environment.

Beta Analytics Pvt. Ltd. Sept 2021 – Oct 2022
Junior Software Developer *Kathmandu, Nepal*

- Spearheaded an innovative **automated video generation** tool for programming education: sole developer from concept through delivery, building a **GTK-3** GUI and integrating text-to-speech (espeak/festival) to replace a multi-hour manual process with a single Python command.
- Contributed to a river basin geospatial mapping project, applying spatial analysis techniques and collaborating in a cross-functional team to deliver a comprehensive data-driven mapping solution.

Beta Analytics Pvt. Ltd. May 2021 – Aug 2021
Python Developer Jr. *Kathmandu, Nepal*

- Built backend functionality for a kiosk application using **Flask**, ensuring reliable server-UI communication and a smooth user experience across the interface.

Lambton College Sept 2024 – Feb 2025
QA Trainee – Team Leader (Work Integrated Learning) *Mississauga, ON*

- Led a cross-functional QA team in an **Agile/Scrum** environment, coordinating UAT sessions and driving quality delivery across sprint cycles.

- Integrated **GitLab CI/CD** into the QA workflow and used **pytest** for automated regression coverage, demonstrating DevOps-first thinking beyond purely manual QA.
- Used **Chrome DevTools** and **Lighthouse** to surface and document performance and usability issues, contributing actionable findings to the engineering team.

EDUCATION

Post-Graduate Certificate – Software Quality Assurance Management Sept 2023 – May 2025
Lambton College, Mississauga, Ontario
Relevant Coursework: Agile Frameworks (Scrum/Kanban), CI/CD Pipelines, Software Testing, Defect Management.

Bachelor of Science – Computer Science and Information Technology June 2016 – Aug 2020
Tribhuvan University (St. Xavier's College), Nepal

REFERENCES

Available upon request.