

Sabin Khanal

Backend & Web Developer · Python · Flask · FastAPI · PostgreSQL · REST APIs · pytest · Docker · CI/CD

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SUMMARY

Backend and web developer at Best Finance Company Ltd., building HR and lending systems with Python, Flask, PostgreSQL and REST APIs in an Agile/Scrum environment. Ships tested code: automated API tests with pytest, CI/CD pipelines in GitHub Actions and Docker deployments, backed by a QA background (functional, UAT and production testing). BSc (Hons) Computing, Leeds Beckett University (UK).

EXPERIENCE

Best Finance Company Ltd. (BFC) · Kathmandu, Nepal Feb 2026 – Present

Transaction & Digital Banking team · Jun 2026 – Present

- Developed an Employee Appraisal System using Python, Flask, PostgreSQL and REST APIs to streamline employee evaluations and grade increments.
- Developed a Letter Management System using Flask and PostgreSQL to centralize and manage official company correspondence.
- Maintain and enhance the Digital Lending System, focusing on performance, security and regulatory requirements, in an Agile/Scrum environment.
- Develop backend services, database operations and system integrations; perform functional testing, QA and troubleshooting to improve reliability.

Web Developer, Information Technology · Feb 2026 – Present

- Develop, maintain and support web applications and internal IT systems, working with business and IT teams to resolve issues and ship improvements.

Hypen Solution · Freelance Tech Support & QA Specialist · Remote Jun 2024 – Aug 2024

- Performed UAT, functional and production testing of Android and iOS builds across devices; documented and reported defects before release.

PROJECTS

Bookstore REST API · Python, FastAPI, Pydantic, pytest, Docker, GitHub Actions github.com/Sabin78910/bookstore-api-python

- Built a REST API with FastAPI and Pydantic v2: filtering, sorting and pagination headers, partial updates (JSON Merge Patch), API-key-protected writes, rate limiting and idempotency keys.
- Automated quality gate in GitHub Actions (ruff lint and format, pytest API tests, pip-audit) on every push; containerised with Docker (non-root) and deployed to Render, with CodeQL scanning and Dependabot.

Concrete Compressive Strength – ML Preprocessing Pipeline · R, MICE, ggplot2, PCA github.com/Sabin78910/concrete-strength-analysis

- R pipeline preparing data for machine learning: MICE imputation, IQR outlier detection, correlation analysis, Min–Max scaling and PCA.

GrocerEase – Multi-Vendor Grocery Marketplace · PHP, Oracle, JavaScript, PayPal github.com/Sabin78910/GrocerEase

- Full-stack marketplace for multiple local traders; co-designed the Oracle database (users, products, orders, payments); integrated PayPal checkout, collection-slot booking and email OTP verification; built Oracle APEX dashboards for traders and administrators.

N & S Handicrafts – E-Commerce Platform · Laravel, PHP, MySQL, Bootstrap

- Full-stack store for the Nepalese market (NPR pricing, VAT checkout, live search, coupons) with an admin panel for orders, payments, courier tracking and sales statistics.

SKILLS

Languages: Python, SQL, PHP, JavaScript, R, HTML, CSS, Java

Frameworks: Flask, FastAPI, Pydantic, Laravel 11, React, Next.js, REST APIs, Oracle APEX, Bootstrap 5, PHPMailer, PayPal API

Mobile & games: Android development, game development

Databases: PostgreSQL, MySQL, Oracle Database, database triggers, sequences

Testing & quality: pytest, automated API testing, QA testing, UAT, functional and production testing, ruff, pip-audit, CodeQL

Cloud, DevOps & tools: AWS, Docker, GitHub Actions (CI/CD), Linux, Git, GitHub, Render, VS Code, Agile/Scrum

Data & ML: data cleaning, data imputation (MICE), outlier detection, correlation analysis, feature scaling, PCA, ggplot2

EDUCATION

BSc (Hons) Computing · Leeds Beckett University (UK), delivered at The British College, Kathmandu Jan 2022 – May 2025

Intermediate (+2), Management & Computer Science · Uniglobe SS/College, Kathmandu 2019 – 2021